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NEW MOLLUSCAN TAXA AND
SCIENTIFIC WRITINGS OF
FRITZ HAAS

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ALAN SOLEM

FIELDIANA: ZOOLOGY

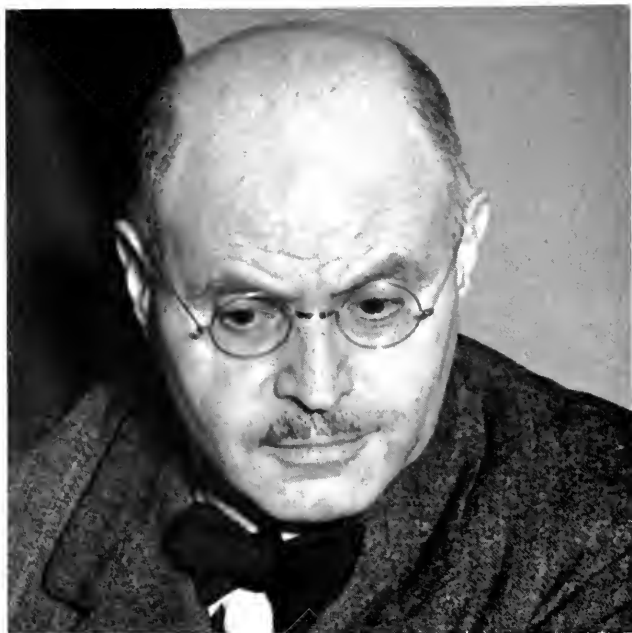
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Fritz Haas shortly after coming to Field Museum, in 1938, left.



Below, Haas in 1964 at meetings of the American Malacological Union.

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SCIENTIFIC WRITINGS OF
FRITZ HAAS

ALAN SOLEM
Curator, Lower Invertebrates

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New Molluscan Taxa and Scientific Writings of Fritz Haas

On October 20, 1908, the fourth number in the fortieth volume of the *Nachrichtenblatt der Deutschen Malakozoologischen Gesellschaft* was issued in Frankfurt-am-Main. Among the many technical reports, there were three short papers on fresh-water clams written by a young German zoologist, Fritz Haas. Since the preceding year, at the suggestion of Wilhelm Kobelt, he had been studying the variation and ecology of unionids in the Upper Rhine basin.

Now, at the start of his 60th year as a publishing scientist, it is appropriate to review and summarize his career. As these words were being written, Fritz Haas was reading galley and page proof of two much longer papers. One summarizes the living and fossil genera of unionid clams for the "Bivalvia" section in the *Treatise on Invertebrate Palaeontology*. It numbers only a few hundred manuscript pages. The other is a synopsis for "Das Tierreich" covering all living species of unionid clams. It comprises about 1,000 typed pages. Either monograph would be a major contribution from any systematist. Both were written by Fritz Haas considerably after the normal retirement age of 65.

The bare statistics of his career are impressive—a bibliography with 319 entries and a list of 385 new genera and species produced over six decades. Very few scholars compile such a record, but Fritz Haas will be remembered longest, not for the number of papers he wrote, nor for the many taxa he described, but for the major synthetic papers he published and the many more "species" that he reduced to synonymy. His 1940 revision "A tentative classification of the Palearctic Unionids" grouped 1,309 described forms of unionid clams into only 19 species, with 65 geographic races. The "Bivalvia" section in Bronn's *Klassen und Ordnungen des Tierreichs* (1929–1956), "Die Unioniden" in Martini-Chemnitz (1910–1920), the series of papers on Spanish mollusks co-authored with Arturo Bofill (1918–1921), the "Lamellibranchia" section in *Die Tierwelt der Nord- und Ostsee* (1926), "Fauna Malacológica Cataluña" (1929), "Bau und Bildung des Perlen" (1931), and his two latest synoptic studies on

the unionids will assure his place in the history of malacology, even without the many descriptions of new taxa.

Born January 4, 1886, the youngest of four children in a Frankfurt banker's family, Fritz was a naturalist from childhood. Early interests in insects and geological specimens were transferred to mollusks through the influence of his Gymnasium teacher, Oscar Boettger, a famous malacologist and herpetologist, then near the end of a long and illustrious career. Through Oscar Boettger, the young Haas met and worked with Wilhelm Kobelt. Both men had a profound influence on his subsequent career. Meticulous descriptions and well-chosen illustrations characterize Haas' papers, and his early descriptions follow the pattern used by Boettger. Haas' continuing interest in the unionid clams, his grasp of ecology and his great interest in zoogeography, all came from early association with Kobelt.

In this day of population biology and the application of evolutionary theory to systematics, it is difficult to realize the status of molluscan taxonomy during the early 1900's. As nineteenth century Europe had been torn and divided by the Napoleonic and Franco-Prussian wars, so malacology had become divided into opposed camps. Starting in the 1870's, under the leadership of Bourguignat, workers in France and Italy began describing, literally by the hundreds, "species" of land and fresh-water mollusks. Their "*nouvelle école*" totally ignored factors of the soft anatomy, phenotypic and intrapopulational variation, geography, hinge structure, and shell sculpture in the unionids. They used a completely typological approach, relying on a few gross shell measurements and simple ratios to discriminate their "species." Carried to its logical extreme, almost every specimen became a "species." The influence of this school still haunts systematic malacology, since it is far simpler to propose new names than to prove that named forms are minor variations of biological species.

Even at the height of Bourguignat's influence, many malacologists did not accept his premises. In France, Drouët and the Fischer family, in Germany Kobelt and the Boettgers, most of the English, American and Scandinavian workers began to grope toward an understanding of geographic and phenotypic variation. Kobelt focused attention on the probable importance of hydrographic boundaries and local variation in unionid evolution, but he was too old for the intensive field work and collection study required. Fritz Haas provided the evidence and hard work needed to confirm Kobelt's inspired hypotheses.

Although Boettger and Kobelt were primarily responsible for the form and substance of Fritz Haas' work, his Ph.D. was obtained under the direction of Prof. Buetschli at Heidelberg. A source of quiet pride to Fritz was the receipt of a certificate from Heidelberg on February 22, 1960 honoring the 50th anniversary of his Ph.D. examinations. While working for his degree he made his first foreign field trip, to Norway, for studies in marine biology. His dissertation was concerned with the evolution of, and distributional patterns shown by the unionids in the Upper Rhine Valley. Considerable field work, both winter and summer, was required. Collecting unionids is not at all glamorous, but is a wet and muddy activity. Although Fritz was working for a Ph.D., even during the winter months he felt it was prudent to walk the streets until his clothes dried, rather than coming home wet and muddy to face his mother's concern. This problem is common with young naturalists today and is solved in similar fashions!

Early in 1910 he began publishing a continuation of the "Die Unioniden" in Martini-Chemnitz and on January 1, 1911 was appointed Assistant Keeper of Invertebrate Zoology at the Natur-Museum Senckenberg, Frankfurt. Field activities in many parts of southern Germany, a continuous stream of publications on unionids and work with the huge unionid collection were mixed with reports on mollusks from Indonesia and the Sudan, his first of many papers on expedition materials.

In August, 1914, Fritz and two companions were on a collecting trip in the Pyrenees. Human habitations and interesting land mollusks seldom are found together, and their infrequent visits to small towns were only to replenish supplies. Many informal and officially unobserved crossings of the French-Spanish border were made. Unexpectedly, a visit to a small French town provided a turning point in his career. Unknown to the collectors, full troop mobilization of the French and German armies had been ordered. Shooting had not started, but people were alert for spies and saboteurs. The appearance of three Germans in a French border town resulted in swift arrest. Fortunately, the local magistrate was intelligent and no more in favor of war than were the German snail collectors. Instead of being interned, the Germans were kept under comfortable armed guard for one night, then allowed to go by train to Sète, where they just managed to obtain passage to Spain on a crowded ship.

Hence World War I saw Fritz Haas stranded in Spain rather than interned in France. It was not until 1919 that he returned to Ger-

many, but the intervening years had been very productive. He made quite extensive collections, published studies on historical unionid collections in Spanish museums, sent letters to Frankfurt outlining his intensive collecting efforts in the Pyrenees and began to prepare the long series of papers (1919–1921) with Arturo Bofill that remain as definitive works on the Spanish fauna.

The inflation and economic turmoil of Germany in the 1920's restricted Fritz's field work, but barely slowed his research activity. Early in 1920 he became editor of the *Archiv für Molluskenkunde*, the successor of the venerable *Nachrichtenblatt*. In 1921, a volunteer worker from Mainz, Helene Ganz, was assigned to help Fritz Haas at the Senckenberg Museum. She proved indispensable, and on March 30, 1922, shortly after Fritz had been promoted to Keeper of Invertebrate Zoology, she became Mrs. Fritz Haas. Forty-five years later, she is still assistant and helper in his work and his devoted companion.

Economic conditions ended publication of his work "Die Unioniden" as part of Martini-Chemnitz, but an invitation to write the "Bivalvia" sections for Bronn's *Klassen und Ordnungen des Tierreichs* provided another outlet for Fritz's energies. Eventually, this project was to number over 2,400 printed pages. The first section was issued in 1929, but not until 1956 did the final part appear. During the 1920's, he also wrote the "Lamellibranchia" section in *Die Tierwelt der Nord- und Ostsee* (1926), "Fauna Malacológica Cataluña" (1929) and "Bau und Bildung des Perlen" (1931).

During part of 1931 and 1932 he was in southern Africa as a member of the Schomburgk Expedition. Material from the Congo, Angola, Rhodesia, Kenya and South Africa, much of which was self-collected, was reported on in his "Binnen-Mollusken aus Inner-Afrika" (1936).

Increasing governmental persecution of Germans belonging to the Jewish faith penetrated even into museums and forced his removal as Keeper of Invertebrate Zoology at the Natur-Museum Senckenberg on June 30, 1936. It became obvious that the Haas family had to leave Germany. Personal savings were used for Fritz to visit Brazil and the United States in search of a job. During the first part of 1937 he collected in northeastern Brazil, the ostensible reason for the trip, and was aided by R. von Ihering, nephew of the famous Hermann von Ihering, with whom Fritz had collaborated for many years. His first attempts at job hunting in the United States failed. Economic conditions of 1937 and 1938 did not permit hiring of malacologists by American museums. After considerable difficulty, and

with the help of the Emergency Committee in Aid of Displaced German Scholars and the generosity of the Jewish Welfare Fund of Chicago, Fritz Haas was hired as Curator of Lower Invertebrates by the Field Museum of Natural History, Chicago. Although the United States did not require his return to Germany before re-entering the United States as an immigrant, in order to be certain that his wife and two children could join him, he went back to Frankfurt in March, 1938. Permission to leave included taking only 10 marks for each adult, and on July 22, 1938 the Haas family landed in New York. On August 1, 1938 he started work at the Field Museum.

At the age of 52, when many scientists are actively planning for retirement, Fritz Haas had to begin a second career. From the huge collections and fantastic library resources of Senckenberg, which rank among the finest in the world, he came to a Museum where the only invertebrates were leftover exhibits from the Columbian Exposition of 1893, there had never been an invertebrate zoologist, and only minimal literature on mollusks was available.

During his first 28 years of research activity he had at his fingertips unequaled raw materials and library facilities. Now, instead of using established facilities, he had to develop these resources. The Frankfurt Museum had accumulated the collections of competent specialists for 120 years; at Chicago there was miscellaneous material of little scientific importance and a few pretty sea shells from exhibits.

Over the next 18 years, with only occasional help from summer workers and volunteers, he expanded, rehoused, relabeled, and re-identified the miscellaneous collections of mollusks in the Field Museum. With the strong backing of Chief Curator of Zoology, Karl P. Schmidt; the Museum Director, Clifford C. Gregg; and President of the Board of Trustees, Stanley Field, an excellent molluscan library was gradually accumulated, modern storage facilities were provided and the nucleus of a research collection established. With admirable foresight, recognizing the inevitable growth of collections, he developed a system of specimen storage that uses far less space per set of shells than is required in other museum collections. Although at Frankfurt he had emphasized research, he greatly enjoyed bringing order out of chaos and seeing the collection begin to reach usable proportions. Progress was slow, and when I first met Fritz Haas, in 1943, parts of the original marine shell collection still had to be re-ordered. Naturally, he had given first attention to the unionid clams and all non-marine mollusks, leaving the sea shells until last. The sight of these numbered specimens, lying loose in huge wooden trays

with the old-fashioned exhibition labels lying torn and dirty beside them, gave me some feeling of what the first few months at Field Museum must have meant to Fritz Haas.

At first, with all his efforts required to organize the collection, publications were few. Early years in Chicago saw his "A tentative classification of the Palearctic Unionids" (1940), summarizing 33 years' work on unionids in Europe, several notes resulting from his work on the Field Museum mollusk collection, and the first few descriptions of South American non-marine mollusks. In 1942, Field Museum purchased the Walter F. Webb collection of land and fresh-water shells. Consisting primarily of the Gerard K. Gude collection, supplemented by one part of the Quadras Philippine collection, plus many other shells purchased by Webb, this provided the nucleus of a research collection. Many small collections from numerous sources were received and processed. By 1954, when the 20,000 sets of the Webb collection finally were completely integrated, 54,000 entries comprised the Field Museum's mollusk collection. Essentially all of these had been labeled, catalogued and reidentified by Fritz Haas.

Through the years, much material from South America came to Fritz Haas for study. Some were taken on field trips and expeditions of Field Museum of Natural History, others came from correspondents or resident scientists in Latin America. Fritz Haas also made several brief trips to different parts of the United States, Bermuda, Cuba and Canada. While he produced many short papers on these collections, his main efforts were devoted to descriptions and distributional studies on Latin American shells. Next to the Unionidae, he described more taxa of Bulimulidae than any other group. Most of these names date from his work in Chicago during the 1950's and early 1960's.

In 1956, I was added to the staff as Assistant Curator of Lower Invertebrates, and on January 1, 1959, Fritz Haas officially retired to become Curator Emeritus of Lower Invertebrates. Thus progressively freed from administrative responsibility, and for the first time in his working days, having assistance in the routine of specimen processing, Fritz could adjust his work habits to a new schedule. Mornings he devoted to checking identifications and cataloguing material from the great influx of formed molluscan collections that were received by the Museum during the late 1950's. At first he missed typing his own labels and housing the specimens himself, but he soon began to enjoy this new freedom from drudgery. Through 1965 these morning endeavors added an average 5,000 sets per year to the mol-

lusk collection. The 156,000 catalogued sets of mollusks now in the Field Museum of Natural History are possible only because Fritz Haas devoted so many years to routine specimen processing.

Afternoons were reserved for research. From the summer of 1961 until late in 1964, every afternoon was spent preparing his manuscript for "Das Tierreich." The growing staff was treated to a never-ending rattle of his typewriter as the manuscript piled higher and higher. A "two-fingered" typist, Fritz's speed was legendary among Museum secretaries. After completing the unionid revision, Fritz switched to full-time work on the formed collection backlog, except for occasional study of new South American material. In December, 1965, he suffered a stroke and, until recently, was only partly active. Resumption of activity and arrival of galley sheets fortunately coincided.

Throughout the years, he has served as a major resource for the scientific and library staff of Field Museum. Some of my earliest memories concern the streams of Museum staff with questions as to European or African localities, letters to be translated, or classical allusions to be explained. Instead of coffee breaks, Fritz takes walking breaks through the other scientific departments. It soon became a habit to hold queries for him. Often the short walk developed into a long absence during which he aided in some translation or helped locate some obscure locality. He was often the despair of our telephone operator who had to locate him "somewhere" in the building.

For decades his hobby has been etymology and his linguistic abilities are considerable. By his own reckoning, he speaks German, English, French, Spanish and Catalanian, and can read and understand Portuguese, Italian, Dutch, Swedish, Danish, Latin and Greek. More than slight knowledge of several other languages was often evident, but he never claimed fluency. Throughout his life he has been a voracious reader and, in every sense of the word, Fritz Haas is a truly educated man. His knowledge of the humanities is encyclopaedic. In later years, he over-awed generations of students from Antioch College who could not believe that a scientist would know more art, literature or music than a college major in that subject.

Of equal amazement, then delight, to successive student workers, and of continual pleasure to the Museum staff, is his pixilated sense of humor. Often one is left speechless. Although slowed by the stroke, his humor remains undiminished. In mid-1966, our new divisional secretary, Mrs. Rendleman, was brought up short by being

called "Mrs. Debarker."¹ Although managing to retaliate with "Dr. Bunny," she was corrected, with a twinkle, as to her mistaken etymology. On his return this year from Florida, where he had been a refugee from cold and snow since Christmas, he replied to questions about how he felt with "My doctor hasn't told me yet!" In keeping with this, although many species and several genera have been named after him, his greatest pleasure was in learning of *Pisidium lepus* Kuiper, 1957, a translation of his name well fitting his sense of humor.

Work has always been a personal and private matter for Fritz Haas. In keeping with the tradition of Kobelt, who refused to publish his own views on unionid evolution until after Bourguignat was dead, Fritz has not indulged in published controversy. It is only with the utmost difficulty that he can be persuaded to comment on papers written by others, particularly work relating to the unionids. Similarly, despite almost 25 years of association and friendship, the only comments he has ever made on my manuscripts have been to correct the gender of a name or to insert needed diacritical marks. By the same token, his manuscripts were not shown to other malacologists for comments and suggestions prior to publication. Conversations with Fritz on any subject but scientific matters are delightful and fascinating, but none of his Museum colleagues can recall having a lengthy scientific discussion with him.

This seeming aloofness from controversy and lack of communication with fellow scientists express the mores of a gentler era and the view of a truly inner directed man. Throughout his two careers, in Frankfurt as the user of major research facilities, and in Chicago as the developer of major research facilities, his life has been guided in a successful search for knowledge. Few men could wish for more.

ACKNOWLEDGEMENTS

First and foremost, compilation of this bibliography, done without his awareness, has been made possible by Fritz Haas. Since 1908, he has maintained a personal record book in which all publications and all new names have been entered. Without this, my task would have been much more difficult. Every reference has been checked, and, for the new names, data on type locality, holotype deposition and inclusive pagination added. For help in this task, I am deeply indebted to Mrs. Rita Mecko, Miss Pamela Sheely, Mrs. Sandra Rendleman and Miss Victoria Leuba. Dr. Adolf Zilch and Dr. Eugene

¹ Rendleman may be derived from the German *Rindenmann*, the person who strips the bark off logs in a sawmill.

Binder provided data concerning the catalogue numbers of many type specimens.

SCIENTIFIC PUBLICATIONS OF FRITZ HAAS

By his own reckoning, Fritz Haas has published "only" 276 articles. There are 319 entries in the following bibliography, since several of his major publications appeared in parts over many years and several articles that appeared as numbered parts in successive issues of a journal were listed by him as single publications.

The following list reflects chronology by and within years. Where possible, exact dates of publication are given and the titles listed in order of appearance. Where the exact date could not be ascertained with the resources available, the papers are listed at the end of that year's group.

Dates for "Die Unioniden" are taken from the signature sheets and show an irregular chronology. Possibly these are printing dates and the parts were actually distributed in a more logical fashion. Determination of this is left to others more interested in historical bibliography.

- 1908a.** Neue und wenig bekannte Lokalformen unserer Najadeen I. Nachr. Bl. deutsch. malak. Ges., **40** (4): pp. 174–176 (20 October).
- 1908b.** Ein neuer fossiler *Unio*. Nachr. Bl. deutsch. malak. Ges., **40** (4): pp. 177–178 (20 October).
- 1908c.** Die Verbreitung der Flussperlmuschel im Odenwald. Nachr. Bl. deutsch. malak. Ges., **40** (4) Beiträge I: pp. 8–16 (20 October).
- 1909a.** Über *Unio auricularius* Spengler. Nachr. Bl. deutsch. malak. Ges., **41** (1) Beiträge II: pp. 20–25 (20 January).
- 1909b.** Neue und wenig bekannte Lokalformen unserer Najadeen II. Nachr. Bl. deutsch. malak. Ges., **41** (1) Beiträge II: pp. 26–32 (20 January).
- 1909c.** Die Vogelfauna des Aalkustensees (Wurttt.). Zool. Beobachter, **50** (1): pp. 24–25 (January).
- 1909d.** Die Namen unserer Unioniden-Gattungen. Nachr. Bl. deutsch. malak. Ges., **41** (2): pp. 68–72 (15 April).

- 1909e.** Einige Ratschläge zum Fang der einheimischen Süßwasserbivalven. Nachr. Bl. deutsch. malak. Ges., **41** (2) Beiträge III: pp. 33–41 (20 July).
- 1909f.** Aus dem Formenkreise des *Unio tumidus* Retz. Nachr. Bl. deutsch. malak. Ges., **41** (2) Beiträge III: pp. 46–48 (20 July).
- 1910a.** Die Najadenfauna des Oberrheins vom Diluvium bis zur Jetztzeit. Abhandl. senckenb. naturf. Ges., **32**: pp. 143–178, Taf. 13–15, 12 text figs. (20 February).
- 1910b.** Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 49–64, pls. 12A–17 (10–13 March).
- 1910c.** Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 65–72 (15 May).
- 1910d.** On *Unio*, *Margaritana*, *Pseudanodonta*, and their occurrence in the Thames Valley. Proc. Malac. Soc. London, **9** (2): pp. 106–112 (30 June).
- 1910e.** Neue Najaden. Nachr. Bl. deutsch. malak. Ges., **42** (3): pp. 97–103 (15 July).
- 1910f.** Neue und wenig bekannte Lokalformen unserer Najaden III. Nachr. Bl. deutsch. malak. Ges., **42** (3) Beiträge IV: pp. 56–62 (15 July).
- 1910g.** *Unio musivus* Spengler. Nachr. Bl. deutsch. malak. Ges., **42** (3) Beiträge IV: pp. 62–64 (15 July).
- 1910h.** Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 1–48, Taf. 1–12, text fig. 1 (1–15 August).
- 1910i.** *Pseudunio*, neues Genus für *Unio sinuatus* Lam. Nachr. Bl. deutsch. malak. Ges., **42** (4): pp. 181–183 (31 October).
- 1910j.** New Unionidae from East Asia. Ann. Mag. Nat. Hist., ser. 8, **6**: pp. 496–499.
- 1911a.** Neue ostasiatische Najaden. Nachr. Bl. deutsch. malak. Ges., **43** (1): pp. 43–47 (1 February).

- 1911b. Die geologische Bedeutung der rezenten Najaden. Geol. Rundschau, **2**: pp. 87–90 (2 May).
- 1911c. Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 73–80, Taf. 18–23 (30 May).
- 1911d. *Unio gentilis* n. sp. und *Anodonta piscinalis* Nils. In P. Hesse. Zur Kenntnis der Molluskenfauna von Ostrumelien. Nachr. Bl. deutsch. malak. Ges., **43** (3): pp. 151–153 (18 July).
- 1911e. Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 81–112, Taf. 24–29 (1–25 July).
- 1911f. Bemerkungen über *Jolya letourneuxi* Bgt. Nachr. Bl. deutsch. malak. Ges., **43** (4): pp. 216–220, Taf. 1 (10 October).
- 1911g. Prof. Dr. Oscar Boettger—Sept. 25, 1910. Jh. u. Mitt. Oberrhein. Geol. Ver., N.F., **1** (2): pp. 19–20. Also Entomologische Blätter, **6**: pp. 267–268 and Zoologisches Beobachter, **51**: pp. 257–259.
- 1911h. Bulgarische Najaden. Abhandl. Natur. Ges. Grlitz, **27**: pp. 235–238.
- 1911i. Die Unioniden des Oberrheins. Rossmaisler's Icon. land-u.-Süssw. Moll., N.F., **17**: pp. 38–46, Taf. 469–470.
- 1911j. Genus *Colletopterum* Boettger. Rossmaisler's Icon. land-u.-Süssw. Moll., N.F., **17**: pp. 46–51, Taf. 471–474.
- 1911k. Der tibetanische Bär. Ber. senckenb. naturf. Ges., **42** (4): pp. 259–261, 1 text fig.
- 1911l. Review of: P. Hesse. Die Anatomie einiger Arten des Genus *Hemicycla* Swainson. Ber. senckenb. naturf. Ges., **42**: p. 328.
- 1912a. Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 113–144, Taf. 30–35 (10–25 February).
- 1912b. Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini–Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 145–168, Taf. 36–41 (11–15 March).

- 1912c.** Zusatz zu meinen "Bemerkungen über *Jolya letourneuxi* Bgt." in Nummer 4 des Nachrichtenblattes von 1911. Nachr. Bl. dtsh. malak. Ges., **44** (2): pp. 85-87 (1 April).
- 1912d.** Die geographische Verbreitung der westdeutschen Najaden. Verh. naturh. Ver. preuss. Rheinlande und Westfalens, **68**: pp. 505-528, Taf. 4-7.
- 1912e.** New land and fresh-water shells, collected by Dr. J. Elbert in the Malay Archipelago. Ann. Mag. Nat. Hist., ser. 8, **10**: pp. 412-420.
- 1912f.** Die Molluskenausbeute der Sunda-Expedition. In J. Elbert. Die Sunda-Expedition des Vereins für Geographie und Statistik zu Frankfurt-am-Main, **2**: pp. 308-315, text figs. 161-162.
- 1912e.** Mollusca für 1910 (Faunistik, Systematik, Biologie). Arch. Naturg., Band 6, **77** (1): pp. 54-98.
- 1913a.** Bemerkungen über Spenglers Unionen. Vidensk. Meddel. fra Dansk naturh. Foren. i Kbhvn., **65**: pp. 51-66, 3 text figs., Taf. III (6 January).
- 1913b.** Neue Najadengattungen. Nachr. Bl. dtsh. malak. Ges., **45** (1): pp. 33-38 (27 January).
- 1913c.** *Vivipara maritzana* n. sp. und *Unio* aff. *vescoi* Bgt. In P. Hesse. Zur Kenntnis der Molluskenfauna von Ostrumelien. II. Nachr. Bl. dtsh. malak. Ges., **45** (2): pp. 71-73 (17 May).
- 1913d.** (Fritz Haas & Ernst Schwarz). Zur Entwicklung der afrikanischen Stromsysteme. Geol. Rundschau, **4** (8): pp. 603-607, 1 text fig. (24 June).
- 1913e.** Review of: "Biologie der europäischen Süßwassermuscheln" von W. Israel. Nachr. Bl. dtsh. malak. Ges., **45** (3): pp. 136-137 (12 July).
- 1913f.** Neue und wenig bekannte Lokalformen unserer Najaden. Nachr. Bl. dtsh. malak. Ges., **45** (3): pp. 105-112 (12 July).
- 1913g.** (C.R. Boettger & F. Haas). Land and fresh-water shells from the Upper Nile region. Proc. Malac. Soc. London, **10** (6): pp. 355-361, 2 text figs. (22 September).
- 1913h.** Neue Süßwasserschnecken aus Central-Buru. Nachr. Bl. dtsh. malak. Ges., **45** (4): p. 184 (20 October).

- 1913i. Die Unioniden. Neubearbeitung und fortsetzung der Küsterschen und Clessinschen monographien von *Unio* und *Anodonta*. In Martini-Chemnitz. Syst. Conch. Cab. (IX 2 II): pp. 169–184, Taf. 42–47 (21–25 November).
- 1913j. (F. Haas & E. Schwarz). Die Unioniden des Gebietes zwischen Main und deutscher Donau in tiergeographischer und biologischer Hinsicht. Abhandl. Königlich Bayerischen Akad. der Wissen. (math.-Physik. Kl.), 26 (7): pp. 1–34, Taf. 1–3 (November).
- 1913k. Der Schopffibis. Ber. senckenb. naturf. Ges., 44 (4): pp. 283–286, 1 text fig.
- 1914a. *Bythinella compressa montis-avium*, eine neue Quellschnecke aus dem Vogelsberg. Nachr. Bl. dtsh. malak. Ges., 46 (1): pp. 38–39, 1 text fig. (11 February).
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- 1931g.** Bau und Bildung des Perlen. *Akad. Verlags. Ges., Leipzig*: pp. 1–116, 39 text figs.
- 1931h.** Beschreibung dreier neuer Bulimuliden aus dem Senckenberg-Museum von H. Oberwimmer–Wien. *Senckenbergiana*, **13** (3/4): pp. 190–194, 6 text figs. (20 August).
- 1932a.** Die Kobeltsche Bearbeitung der von C. V. Erlanger in Nordost-Afrika gesammelten Mollusken. Berichtigungen und Nachträge. *Senckenbergiana*, **14** (3): pp. 173–185, 9 text figs. (15 April).
- 1932b.** Beiträge zur Kenntnis der Verbreitung südamerikanischer Najaden. *Arch. Moll.*, **64** (4/5): pp. 167–170, 1 Taf. (15 July).
- 1932c.** Die Perlenentstehung im Lichte gewebphysiologischer Untersuchungen. *Medizinische Klinik*, **28** (39): pp. 1353–1354, 5 text figs. (23 September).
- 1932d.** Quallen im Main. *Natur u. Museum*, **62** (10): pp. 316–317, 1 Taf. (1 October).
- 1932e.** Perlenbildung. *Senckenbergiana*, **14** (6): pp. 406–409 (29 December).

- 1933a.** Eigentümliche Wohnstätte einer europäischen Meeresmuschel. *Natur u. Museum*, **63** (1): pp. 21–22, 1 text fig. (1 January).
- 1933b.** Quallen im Main. *Natur u. Museum*, **63** (2): p. 36 (1 February).
- 1933c.** Bemerkungen über und Neubeschreibungen von Heliciden aus Zypern und Palästina. *Senckenbergiana*, **15** (1/2): pp. 25–31, 10 text figs. (31 May).
- 1933d.** Zur Systematik der chinesischen "Helicodonten." *Arch. Moll.*, **65** (4/5): pp. 230–231 (15 July).
- 1933e.** Die Schale der Muscheln als Beispiel eines Skelettes wirbelloser Tiere. *Medizinische Klinik*, **29** (31): pp. 1051–1052, 5 text figs. (28 July).
- 1933f.** (W. Beissenhirtz & F. Haas). Laichablage eines Seepolypen (*Polypus vulgaris*) im Frankfurter Zoologischen Garten. *Natur u. Museum*, **63** (8): pp. 267–271, 7 text figs. (1 August).
- 1933g.** Kurze Bemerkungen. *Arch. Moll.*, **65** (6): pp. 271–272 (1 November).
- 1933h.** Binnenmollusken aus Süd- und Südwestchina. *Senckenbergiana*, **15** (5/6): pp. 310–322, 12 text figs. (29 December).
- 1933i.** Schomburgk-Expedition nach Süd- und Mittelafrrika. *Der Biologe*, **2** (6): pp. 140–142, 1 text fig.
- 1933j.** Bivalvia. I. *In* Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil I, Lief. 4: pp. 385–544, 60 text figs.
- 1933k.** Bivalvia. I. *In* Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil I, Lief. 4, II. Nachtrag zum Schrittenver.: pp. I-1–I-41.
- 1934a.** Bivalvia. I. (1). *In* Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Lief. 5: pp. 545–704, 105 text figs. (1 April).
- 1934b.** Kurze Bemerkungen, II. *Arch. Moll.*, **66** (3): pp. 149–151 (1 May).
- 1934c.** Beschreibung von zwei neuen *Viviparus*-Arten aus Afrika. *Zool. Anz.*, **106** (10): pp. 237–240, 8 text figs. (20 May).
- 1934d.** Über einige Landschnecken von Zypern. *Senckenbergiana*, **16** (1): pp. 16–21, 9 text figs. (24 May).

- 1934e. Beschreibung einiger afrikanischer Binnenschnecken. Zool. Anz., **107** (7/8): pp. 221–224, 4 text figs. (15 August).
- 1934f. Neue Landschnecken des Senckenberg-Museums. Senckenbergiana, **16** (2/3): pp. 94–98, 16 text figs. (5 October).
- 1934g. Kurze Bemerkungen III. Arch. Moll., **66** (6): pp. 354–357 (15 October).
- 1934h. Einige neue Binnenschnecken aus Asien und Afrika. Zool. Anz., **108** (7/8): pp. 202–205, 6 text figs. (15 November).
- 1934i. Bivalvia. I. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Lief. 6: pp. 705–864, 127 text figs. (1 December).
- 1935a. Kleine Bemerkungen IV. Arch. Moll., **67** (1): pp. 45–47 (1 January).
- 1935b. Beschreibung neuer Untergattungen und Arten von Mollusken. Zool. Anz., **109** (7/8): pp. 188–195, 13 text figs. (15 February).
- 1935c. Kurze Bemerkungen V. Arch. Moll., **67** (3): pp. 107–112 (1 May).
- 1935d. Zur Systematik und geographischen Verbreitung der im paläarktischen Gebiet vorkommenden *Bulinus*-Arten (Moll. Pulm.). Arch. Naturgesch., N.F., **4** (2): pp. 230–244, 16 text figs. (25 June).
- 1935e. Kurze Bemerkungen VI. Arch. Moll., **67** (4/5): pp. 164–167 (15 August).
- 1935f. Zur Mollusken-Fauna der Picos de Europa (Asturien, Spanien). Senckenbergiana, **17** (5/6): pp. 241–243, 3 text figs. (28 December).
- 1935g. Bivalvia. I. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil I, Lief. 7: pp. 865–984, 71 text figs. (31 December).
- 1935h. Bivalvia. I. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil I, Lief. 7, II. Nachtrag zum. Schriftenver.: pp. II-1–II-20 (31 December).
- 1936a. Kurze Bemerkungen VII. Arch. Moll., **68** (3): pp. 127–131 (1 May).

- 1936b.** Neue und kritische Arten der Heliciden-Unterfamilie Helicellinae (Moll. Gastr. Pulm.). Zool. Anz., **114** (11/12): pp. 297–305, 19 text figs. (15 June).
- 1936c.** Binnen-Mollusken aus Inner-Afrika, hauptsächlich gesammelt von Dr. F. Haas während der Schomburgk-Expedition in den Jahren 1931/32. Abhandl. senckenb. naturf. Ges., **431**: pp. 1–156, Taf. 1–8, 17 text figs. (20 July).
- 1936d.** Kurze Bemerkungen VIII. Arch. Moll., **68** (4/5): pp. 214–216 (1 August).
- 1936e.** Zur Geschichte der Malakozoologie und zur Entwicklung der Malakozoologischen Sammlungstechnik. Arch. Moll., **68** (6): pp. 252–256 (15 September).
- 1936f.** Malakologische Bemerkungen und Neubeschreibungen. Senckenbergiana, **18** (3/4): pp. 143–154, 29 text figs. (7 November).
- 1937a.** Neue und kritische Pupilliden. Arch. Moll., **69** (1/2): pp. 2–18, 3 Taf. (1 January).
- 1937b.** Bivalvia. II. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil II, Lief. 7: pp. 1–208, 150 text figs. (1 August).
- 1937c.** Kurze Bemerkungen IX. Arch. Moll., **69** (5/6): pp. 244–246, 3 text figs. (1 November).
- 1938a.** Über potentielle Skulpturbildung bei *Valvata (Cincinna) piscinalis antiqua* (Sow.). Arch. Moll., **70** (1): pp. 41–45, 6 text figs. (15 January).
- 1938b.** Bivalvia. II. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil II, Lief. 2: pp. 209–466, 15 text figs. (24 May).
- 1938c.** Neue Binnen-Mollusken aus Nordost-Brasilien. Arch. Moll., **70** (1): pp. 46–51, 10 text figs. (15 January).
- 1938d.** *Sairostoma perplexum* n. gen. n. sp. der Streptaxiden aus NO-Brasilien. Arch. Moll., **70** (4): pp. 206–208, 2 text figs. (15 July).
- 1939a.** Fantastic Invertebrate creatures of the sea are shown in a new hall. Field Museum News, **10** (5): p. 1, 1 pl. (May).
- 1939b.** Zur Kenntnis der Binnen-Mollusken NO-Brasilien. Senckenbergiana, **21** (3/4): pp. 254–278, 3 text figs. (31 August).

- 1939c.** Malacological Notes. Field Mus. Nat. Hist., Zool. Ser., **24** (8): pp. 93–103, text figs. 7–9 (19 September).
- 1939d.** On the life habits of some tropical fresh-water mussels. Nautilus, **53** (2): pp. 53–56 (20 October).
- 1940a.** A tentative classification of the Palearctic Unionids. Field Mus. Nat. Hist., Zool. Ser., **24** (11): pp. 115–141 (30 January).
- 1940b.** *Planorbulina* not a generic name in the Mollusca. Nautilus, **54** (1): pp. 33–34 (23 July).
- 1941a.** Florida Tree-Snails. Field Museum News, **12** (1): p. 6 (January).
- 1941b.** Malacological Notes—II. Field Mus. Nat. Hist., Zool. Ser., **24** (17): pp. 167–174, pls. 1–2 (31 January).
- 1941c.** Bivalvia. II. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil II, Lief. 3: pp. 467–678, 42 text figs. (June).
- 1941d.** What is *Anodonta* (*Euphrata*) *bahlikiana* Pallary? Nautilus, **55** (1): pp. 20–21 (11 July).
- 1941e.** *Obstructio* versus *Tropicorbis*. Nautilus, **55** (1): pp. 31–32 (11 July).
- 1941f.** Records of large fresh-water mussels. Field Mus. Nat. Hist., Zool. Ser., **24** (24): pp. 259–270 (30 October).
- 1942a.** The habits of life of some west coast bivalves. Nautilus, **55** (4): pp. 109–113 (7 May).
- 1942b.** The habits of life of some west coast bivalves. Nautilus, **56** (1): pp. 30–33 (23 July).
- 1942c.** Important mollusk collection acquired by Museum. Field Museum News, **13** (7): p. 4, 1 text fig. (July).
- 1943.** Malacological Notes—III. Field Mus. Nat. Hist., Zool. Ser., **29** (1): pp. 1–23, 8 text figs. (10 June).
- 1945a.** Malacological Notes—IV. Fieldiana: Zool., **31** (2): pp. 3–14, 2 text figs. (19 September).
- 1945b.** Some remarkable shells of a South American fresh-water mussel. Fieldiana: Zool., **31** (3): pp. 15–30, pl. 3 (19 September).
- 1945c.** Collective Mimicry. Ecology, **26** (4): pp. 412–413 (October).

- 1947a.** *Adelopoma costaricense* found in Charleston, S. C. *Nautilus*, **61** (1): pp. 33–34 (14 July).
- 1947b.** Malacological Notes—V. *Fieldiana: Zool.*, **31** (22): pp. 171–188, 8 text figs. (27 October).
- 1948a.** *Review of:* “A Field Guide to the shells of our Atlantic and Gulf Coast.” *Bull. Chgo. Nat. Hist. Mus.*, **19** (1): p. 8 (January).
- 1948b.** On *Margaritifera durrovensis* Phillips and its affinities. *J. Conch.*, **23** (1): pp. 6–8 (19 November).
- 1948c.** Three new land shells from Peru. *Fieldiana: Zool.*, **31** (23): pp. 189–193, text figs. 38–40 (30 December).
- 1949a.** Land and fresh-water mollusks from Peru. *Fieldiana: Zool.*, **31** (28): pp. 235–250, text figs. 50–59 (29 April).
- 1949b.** Some land and fresh-water mollusks from Guatemala. *Nautilus*, **62** (4): pp. 136–138 (8 June).
- 1949c.** How hermit crabs solve a housing shortage and utilize property inheritance principle. *Bull. Chgo. Nat. Hist. Mus.*, **20** (8): p. 7, 1 text fig. (August).
- 1949d.** An overlooked Chinese Unionid. *Nautilus*, **63** (2): pp. 70–71 (1 November).
- 1949e.** On some deepsea mollusks from Bermuda. *Bull. Inst. Catalana Hist. Nat.*, **37**: pp. 69–73, 6 text figs. (3 December).
- 1949f.** Land-und Süßwassermollusken aus dem Amazonas-Gebiete. *Arch. Moll.*, **78** (4/6): pp. 149–156, Taf. 7 (15 December).
- 1949g.** On fresh-water mollusks from the Amazonian region. *Ann. Inst. Biol. Mexico*, **20** (1–2): pp. 301–314, 6 text figs., 1 map.
- 1950a.** Hermit crabs in fossil snail shells in Bermuda. *Ecology*, **31** (1): p. 152 (10 February).
- 1950b.** Some land and fresh-water mollusks from Pará State, Brazil. *Nautilus*, **64** (1): pp. 4–6 (5 July).
- 1950c.** Sovereigns and Science. *Bull. Chgo. Nat. Hist. Mus.*, **21** (8): p. 8 (August).
- 1950d.** On some Bermudian Ellobiidae. *Proc. Malac. Soc. London*, **28** (4–5): pp. 197–199, pl. 22 (18 December).

- 1951a.** Notes on some Streptaxids. *Nautilus*, **64** (4): pp. 133–134 (7 May).
- 1951b.** Remarks on and descriptions of South American non-marine shells. *Fieldiana: Zool.*, **31** (46): pp. 503–545, text figs. 97–126 (6 July).
- 1951c.** Non-marine shells from Borneo. Collected by the Borneo Zoological Expedition, 1950. *Fieldiana: Zool.*, **31** (52): pp. 623–628, text figs. 132–133 (5 September).
- 1951d.** *Review of: "A Field Guide to the shells of our Atlantic & Gulf Coast"* (revised edition). *Bull. Chgo. Nat. Hist. Mus.*, **22** (11): p. 8 (November).
- 1952a.** Shells collected by the Peabody Museum Expedition to the Near East, 1950. I. Mollusks from the Persian Gulf. *Nautilus*, **65** (4): pp. 114–119 (22 May).
- 1952b.** Some Non-Marine Mollusks from Northwest and Southwest Siam. *Nat. Hist. Bull. Siam Soc.*, **15** (1): pp. 21–25 (September).
- 1952c.** On the mollusk fauna of the landlocked waters of Bermuda. *Fieldiana: Zool.*, **34** (8): pp. 101–105 (18 December).
- 1952d.** South American non-marine shells: Further remarks and descriptions. *Fieldiana: Zool.*, **34** (9): pp. 107–132, text figs. 14–26 (29 December).
- 1953a.** Nature provides aid to shell collectors. *Bull. Chgo. Nat. Hist. Mus.*, **24** (6): p. 2 (June).
- 1953b.** Mollusks from Ilha Grande, Rio de Janeiro, Brazil. *Fieldiana: Zool.*, **34** (20): pp. 203–209, text figs. 41–42 (24 July).
- 1954a.** Non-marine mollusks from the Pacific slope of North America. *Nautilus*, **67** (3): pp. 94–96 (18 February).
- 1954b.** Zur anatomie und Entwicklungsgeschichte einiger äthiopischer und südamerikanischer Unionazeen. *Arch. Moll.*, **83** (1/3): pp. 89–90 (15 April).
- 1954c.** The strange case of the "Flying Lobster." *Bull. Chgo. Nat. Hist. Mus.*, **25** (9): p. 2 (September).
- 1954d.** Some marine shells from the Persian Gulf. *Nautilus*, **68** (2): pp. 46–49 (15 November).

- 1955a.** Binnenschnecken aus einer Karbon-Landschaft im unteren Amazonasgebiete. *Arch. Moll.*, **84** (1/3): pp. 101–105, 6 text figs. (15 June).
- 1955b.** On non-marine shells from northeastern Brazil and Peru. *Fieldiana: Zool.*, **37**: pp. 303–337, text figs. 57–74 (19 June).
- 1955c.** Mollusca: Gastropoda (of the Percy Sladen Trust Expedition to Lake Titicaca, in 1937). *Trans. Linnean Soc. London*, ser. 3, **1** (3), Art. XVII: pp. 275–308, text figs. 1–28 (29 July).
- 1955d.** Kurze Mitteilungen. Malakozoologisches aus Otto Hamann's "Europäischer Höhlenfauna." *Arch. Moll.*, **84** (4/6): p. 211 (17 October).
- 1955e.** Kurze Mitteilungen. *Unionella* Haas 1913, vorweggenommen durch *Unionella* Etheridge 1888. *Arch. Moll.*, **84** (4/6): p. 212 (17 October).
- 1955f.** On some small collections of inland shells from South America. *Fieldiana: Zool.*, **34** (35): pp. 361–387, text figs. 70–84 (29 December).
- 1955g.** Bivalvia. II. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 3, Abt. III, Teil II, Lief. 4: pp. 679–909, text figs. 208–209.
- 1956a.** A deep-sea "bug." *Bull. Chgo. Nat. Hist. Mus.*, **27** (5): p. 7 (May).
- 1956b.** Was ist *Bulimus minimus* Philippi? *Arch. Moll.*, **85** (1/3): p. 84 (4 June).
- 1956c.** Review of: "How to Collect Shells." *Bull. Chgo. Nat. Hist. Mus.*, **27** (7): p. 5 (July).
- 1956d.** Bivalvia. III. In Bronn. *Klassen und Ordnungen des Tierreichs*, Band 2, Abt. II, Lief. 5, Schriftenver.: III-1–III-148.
- 1957a.** Tribute to E. E. Hand, Shell Collector. *Bull. Chgo. Nat. Hist. Mus.*, **28** (1): pp. 3, 7, 1 text fig. (January).
- 1957b.** Zur Tiergeographie von Amazonien und dem Guayana-Schild. *Mitt. Nat. For. Ges. Bern.*, N.F., **14**: pp. 59–64, 1 text fig. (February).
- 1957c.** Proposed use of the plenary powers to secure that the generic name "*Anodonta*" Lamarck, 1799 (Class Pelecypoda) shall be the oldest available name for the genus concerned (Proposed Valid-

- tion of a ruling given in "Opinion" 94). Bull. Zool. Nomenclature, **13** (8): pp. 245-247 (August).
- 1957d.** "Extinct" snail found; had been hiding for 300 million years. Bull. Chgo. Nat. Hist. Mus., **28** (10): p. 7 (October).
- 1957e.** Eine neue endemische Schnecke aus dem Titikaka-See. Arch. Moll., **86** (4/6): pp. 137-139, 2 text figs. (28 December).
- 1957f.** Henry Augustus Pilsbry. Arch. Moll., **86** (4/6): pp. 201-203, 1 Taf. (28 December).
- 1957g.** Natural History of the Pearls. Commun. Instituto Tropical Investigaciones Cient., **4** (3/4): pp. 113-126, 11 text figs. (July-December).
- 1959a.** Protection under the Plenary Powers of the generic name *Anodonta* Lamarck, 1799 (Class Pelecypoda), a name placed on the *Official List of Generic Names in Zoology* in 1926 by the Ruling given in Opinion 94. Opinions and Declarations rendered by Int. Comm. on Zool. Nomen., **20** (28): pp. 303-310, Opinion 561 (28 April).
- 1959b.** Inland mollusks from Venezuela, Southern Brazil, and Peru. Fieldiana: Zool., **39** (31): pp. 363-371, text figs. 60-64 (22 May).
- 1959c.** Über Schneckenmumien. Arch. Moll., **88** (4/6): pp. 159-161, 5 text figs. (21 December).
- 1959d.** Shells collected by the Expedition. In Henry Field. An Anthropological Reconnaissance in West Pakistan, 1955. Pap. Peabody Mus. Archaeol. Ethnol., Harvard University, **52**: p. 228.
- 1960a.** (F. Haas & A. Solem) Non-marine mollusks from British Honduras. Nautilus, **73** (4): pp. 129-131, text figs. 5-7 (4 April).
- 1960b.** Caribbean land molluscs: Vertiginidae. Studies on Fauna of Curaçao and other Caribbean Islands, **10** (41): pp. 1-17, pls. 1-5, 2 text figs.
- 1961.** New land mollusks from Madagascar and Mexico. Fieldiana: Zool., **44** (3): pp. 19-23, text figs. 10-12 (15 November).
- 1962a.** A new species of land snail from Bolivia. Fieldiana: Zool., **44** (10): pp. 67-68 (26 March).
- 1962b.** Review of: "Sea Shells of the World," by R. Tucker Abbott. Bull. Chgo. Nat. Hist. Mus., **33** (7): p. 8 (July).

- 1962c.** Zur Unionidenfauna Afrikas. Arch. Moll., **91** (4/6): pp. 215–216 (30 December).
- 1962d.** Caribbean land molluscs: Subulinidae and Oleacinidae. Studies on Fauna of Curaçao and other Caribbean Islands, **13** (58): pp. 49–60, pls. 7–11, table 4, text fig. 53.
- 1963.** Memory Magic. Bull. Chgo. Nat. Hist. Mus., **34** (6): pp. 6–7, 1 text fig. (June).
- 1964.** (A. Solem & F. Haas) *Adelopoma costaricense* Bartsch & Morrison, 1942, not an inhabitant of the United States. Nautilus, **78** (2): pp. 68–69 (11 October).
- 1966.** On some new non-marine mollusks from Columbia (*sic*) and Peru. Fieldiana: Zool., **44** (25): pp. 231–241, text figs. 48–57 (21 March).
- 1967.** Unionacea. In Treatise on Invertebrate Paleontology, Part N, Mollusca 6 (in press).
- Unionacea. Das Tierreich, **87** (in press).
- In preparation (A. Solem & F. Haas). Non-marine mollusks from Colombia.
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New Taxa Described by Fritz Haas

All of the following 385 new names, 77 referring to genera and 308 to species and subspecies, apply to mollusks. The vast majority are descriptions of previously unknown species or unrecognized genera. Only nine are replacements for preoccupied names.

Two lists are provided: first, an alphabetical list of the names that includes full information as to original inclusive reference, type locality and holotype depository; second, a systematic list giving only the year of publication. This allows ready retrieval of information on a particular name and also ease in determining exactly what names Haas proposed in a systematic group.

In both lists, the name is cited as it appeared in the original publication. Current rulings of the International Commission on Zoological Nomenclature concerning the alteration of original diacritical marks have been ignored. Such rules have been changed before and will be again. The user of this list can make needed alterations according to rules in effect at that moment. Many of the journals are available only in the very largest libraries. Inclusive page and figure citations have been given for the convenience of those wishing to order photostatic copies, rather than just the normally cited first page of the description.

With few exceptions, Fritz Haas always indicated where his type specimens could be located. In the days before the Natur-Museum Senckenberg adopted a numerical catalogue, such data were not published. I'm deeply indebted to Adolf Zilch for supplying many numbers and to Eugene Binder for confirming the existence of several types in Geneva. A few types could not be located nor their probable location verified. To conserve space, the following abbreviations indicate the identity of the more frequently mentioned institutions:

AMNH—American Museum of Natural History, New York
BMNH—British Museum (Natural History), London
FMNH—Field Museum of Natural History, Chicago
SMF—Natur-Museum Senckenberg, Frankfurt

Spellings of geographic localities have been altered in a few cases and some German terms translated into English. No attempt

has been made to make locality citations reflect current political boundaries.

ALPHABETICAL LIST OF NAMES

- Acanthotropis* Haas, 1939. Field Mus. Nat. Hist., Zool. Ser., **24** (8): p. 95. Type species—*Vivipara partelloi* Bartsch, 1909.
- achrous* Haas, 1952; *Bulimulus* (*Scutalus*). Fieldiana: Zool., **34** (9): pp. 126–128, fig. 24—Tarata, Dept. Cochabamba, Bolivia at 2,800 meters elevation. Holotype FMNH 39720.
- acme* Haas, 1955; *Bulimulus* (*Peronaeus*). Fieldiana, Zool., **37**: pp. 325–326, fig. 68—"Altura de la Hacienda Mozobamba," Ongoy, Andahuaylas, Apurimac, Peru at 2,500 meters elevation. Holotype FMNH 51355.
- acrenoica* Haas, 1936; *Helicella* (*Xerocinta*) *ammonis*. Zool. Anz., **114** (11–12): pp. 297–298, figs. 1–2—Mte. Miletto, near Naples, Italy at 2,000 meters elevation. Holotype SMF 10535.
- Afronaia* Haas, 1963. Arch. Mollusk., **91** (4–6): pp. 215–216. Type species—*Indonaia framesi* Connolly, 1925.
- Afroparreysia* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: p. 84. Type species—*Parreysia lobensis* Frierson, 1913.
- Afropunctum* Haas, 1934. Zool. Anz., **107** (7–8): pp. 221–222. Type species—*Afropunctum mermodi* Haas, 1934.
- altealata* Haas, 1919; *Hyriopsis*. Jahrb. Preuss. Geol. Landesanstalt, **40**, sect. 2 (1): pp. 150–151, pl. 4, fig. 3—Brachter Forest, Nordrhein, Westfalen, Germany. Holotype in Berlin.
- alticola* Haas, 1955; *Plecocheilus* (*Plecocheilus*) *fulminans*. Fieldiana: Zool., **34** (35): pp. 381–382, fig. 81—Torono-tepui, Chimantá-massif, on the slopes bordering Cáno Mojado, Bolivar, Venezuela, at 2,250 meters elevation. Holotype FMNH 52442.
- altorum* Haas, 1951; *Bulimulus* (*Scutalus*) *revinctus*. Fieldiana: Zool., **31** (46): pp. 516–517, fig. 104—Puna between Andahuaylas and Abancay, Peru at 4,000 meters elevation. Holotype FMNH 30912.
- amazonicus* Haas, 1949; *Potamopyrgus* (*Potamopyrgus*). Ann. Inst. Biol., Mexico, **20** (1–2): pp. 313–314, fig. 6—Rio Tapajóz at Belterra, Pará, Brazil at 6 meters depth. Holotype FMNH 29197.

- amnesta* Haas, 1936; *Helicella* (*Xeroplexa*). Zool. Anz., **114** (11-12): p. 301, figs. 9-11—Sierra de Cabra, Murcia, Spain. Holotype SMF 10546.
- Amphicoelina* Haas, 1933. Arch. Mollusk., **65** (4/5): p. 231. Type species—*Helix biconcava* Heude, 1882.
- amphischnus* Haas, 1933; *Zebrina* (*Styloptychus*). Senckenbergiana, **15** (5/6): p. 321, figs. 12, 12a—4 km. from Hsa pin tshan, North of Tungho, Prov. Szytschuan, South China. Holotype SMF 6463.
- angigyra* Haas, 1949; *Systrophia* (*Systrophia*). Fieldiana: Zool., **31** (28): pp. 246-247, fig. 58—Divisoria, Dept. Huánuco, Peru at 5,000 feet elevation. Holotype FMNH 30034.
- angulifera* Haas, 1955; *Solaropsis* (*Psadara*). Fieldiana: Zool., **34** (35): pp. 370-372, fig. 75—Chapare, tropical Bolivia at 400 meters elevation. Holotype FMNH 50730.
- angusta* Haas, 1951; *Euglandina* (*Euglandina*) *cylindrus*. Fieldiana: Zool., **31** (46): pp. 539-541, fig. 122—Jaën, Peru at 700 meters. Holotype FMNH 30911.
- aperta* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London, ser. 3, **1** (3): p. 296, fig. 21—P. 31. G.I.C. 88012, 0.5 meters depth at Molinopampa Bay, Lago Grande, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.1494.
- asper* Haas, 1934; *Amphidromus* (*Goniodromus*). Senckenbergiana, **16** (2/3): p. 96, figs. 11-12—Sud-Annam, 120 km. from coast on the way to Plateau Lang-Bian, Vietnam between 600-1,000 meters elevation. Holotype SMF 7762.
- aulostoma* Haas, 1936; *Helicella* (*Jacosta*) *syrensis*. Zool. Anz., **114** (11-12): pp. 298-299, fig. 5—Northern side Kornos Mtns., Cyprus at 660-830 meters elevation. Holotype SMF 10540.
- badensis* Haas, 1910; *Unio batavus*. Nachr. Bl. dtsch. malak. Ges., **42** (3), Beiträge IV: pp. 60-62—Saalbach near Phillippsburg, Baden, Wurttemberg, Germany. Holotype SMF 11006.
- bakeri* Haas, 1955; *Taphius montanus*. Trans. Linn. Soc. London, ser. 3, **1** (3): pp. 280-282, fig. 4—G.I.C. 135, 2-3.5 meters depth at Capachica, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.1486.
- bangweolica* Haas, 1936; *Caelatura* (*Caelatura*) *choziensis*. Abhandl. senckenb. naturf. Ges., **431**: pp. 56-57, pl. 5, fig. 1a-r—Lake Bangweolo, Northern Rhodesia. Holotype SMF 9576.

- bangweolicum* Haas, 1936; *Sphaerium hartmanni*. Abhandl. senckenb. naturf. Ges., **431**: pp. 46-47, pl. 3, fig. 3a-c—Canal near Nsombo, Lake Bangweolo, Northern Rhodesia. Holotype SMF 8787.
- bangweolicus* Haas, 1939; *Lanistes (Meladomus) ovum*. Abhandl. senckenb. naturf. Ges., **431**: pp. 36-37, pl. 2, fig. 1—North of Lake Bangweolo, near Nsombo, Northern Rhodesia. Holotype SMF 7435.
- barkeri* Haas, 1951; *Annularia*. Fieldiana: Zool., **31** (46): pp. 505-506, fig. 97—limestone cave in the Sierra Cachiri, NW of Maracaibo, Dist. of Mara, State Zulia, Venezuela. Holotype FMNH 30904.
- bartschi* Haas, 1941; *Cymatosyrinx*. Field Mus. Nat. Hist., Zool. Ser., **24** (17): pp. 172-173, pl. 2, figs. h, i—Argus Banks, Bermuda Islands. Holotype FMNH 13672.
- Basileostylus* Haas, 1935. Zool. Anz., **109** (7-8): pp. 188-189. Type species—*Placostylus bollonsi* Suter, 1908.
- basitorus* Haas, 1951; *Drymaeus (Drymaeus)*. Fieldiana: Zool., **31** (46): pp. 522-523, fig. 109—Chanchamayo, Peru, at 1,000 meters elevation. Holotype FMNH 31354.
- Bathybermudia* Haas, 1949. Bul. Inst. Catalana Hist. Nat., **37**: pp. 70-71. Type species—*Bathybermudia carynae* Haas, 1949.
- bermudensis* Haas, 1949; *Malletia (Malletia)*. Bull. Inst. Catalana Hist. Nat., **37**: pp. 72-73, fig. 6—32°0.8.2'N, 64°33'W, 1,700 fathoms deep, off Bermuda coast. Holotype FMNH 31658.
- bisexigua* Haas, 1951; *Elma*. Nautilus, **64** (4): p. 134. New name for *Bulimus exigens* Morelet, 1881 not Reeve, 1850.
- boetonensis* Haas, 1912; *Tarebia celebensis*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 419—Lipoemangaoe, SE Boeton, Indonesia. Holotype SMF 5969.
- bolivari* Haas, 1916; *Mycetopoda*. Trab. Mus. Nac. Cienc. Nat., Madrid, Ser. Zool. (25): pp. 36-37, pl. II, fig. 2—Rio Unuyacu, affluent of the Napo, Ecuador. Holotype at the Nat. Mus. Nat. Sci., Madrid.
- Brachypyrghulina* Haas, 1955. Trans. Linn. Soc. London, **3**, **1** (3): p. 301. Type species—*Brachypyrghulina carinifera* Haas, 1955.
- bullaceus* Haas, 1936; *Bulinus (Diastrophia) contortus*. Abhandl. senckenb. naturf. Ges., **431**: p. 31, pl. 1, fig. 17—Madagascar. Holotype SMF 7918.

- Bullapex* Haas, 1950. Proc. Malac. Soc. London, **28** (4-5): p. 199, pl. 22, figs. 6-8. Type species—*Plecotrema cubensis* Pfeiffer, 1854.
- buruana* Haas, 1913; *Limnaea*. Nachr. Bl. dtsh. malak. Ges., **45** (4): p. 184—Wakolo Sea in Central-Buru, Indonesia. Holotype SMF 806A.
- Calloretinella* Haas, 1934. Senckenbergiana, **16** (1): p. 17. Type species—*Retinella* (*Calloretinella*) *mavromoustakisi* Haas, 1934.
- carinato-globosa* Haas, 1934; *Helicella* (*Jacosta*) *syrensis*. Senckenbergiana, **16** (1): pp. 18-20, figs. 1-4—Akrotiri-Wald, Cyprus. Holotype SMF 6709.
- carinifera* Haas, 1955; *Brachypyrghulina*. Trans. Linn. Soc. London, **3**, 1 (3): pp. 301-302, fig. 27—St. G.50.G.I.C. 806, Sacune, Lake Titicaca, Peru at 5 meter depth. Holotype BMNH 1956.11.5.2.
- carynae* Haas, 1949; *Bathybermudia*. Bull. Inst. Catalana Hist. Nat., **37**: pp. 70-71, figs. 3-4—32°0.8.2'N, 64°33'W, 1,700 fathoms deep, off Bermuda coast. Holotype FMNH 31656.
- catalonicus* Haas, 1921; *Unio batavus*. Treb. Mus. Cienc. Nat. Barcelona, **3** (3): pp. 291, 363, pl. 3, figs. 19-22—Riu Siò near Balaguer, Spain. Holotype location unknown.
- catenae* Haas, 1952; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (9): pp. 118-119, fig. 20—Hacienda Cadena, Dist. of Marcapata, Prov. Quispicanchi, Dept. Cuzco, in the valley of Rio Marcapata, Peru, at 1,000 meters elevation. Holotype FMNH 38121.
- cathaicus* Haas, 1930; *Unio*. Senckenbergiana, **12** (1): pp. 7-9, figs. 6-7—Hunan, Central China. Holotype SMF 3657.
- cereonitens* Haas, 1951; *Systrophia* (*Systrophia*). Fieldiana: Zool., **31** (46): pp. 533-534, fig. 117—south of San Ignacia and west of Rio Chinchipe, Peru, close to the border of Ecuador at 1,200 meters elevation. Holotype FMNH 30924.
- Chrysopseudodon* Haas, 1920. Syst. Conch. Cab. (9), **2** (2): p. 317. Type species—*Pseudodon aureus* Heude 1900.
- claviformis* Haas, 1951; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., **31** (46): pp. 515-516, fig. 103—Abancay, Peru. Holotype FMNH 31212.
- Coarctatio* Haas, 1945. Fieldiana: Zool., **31** (2): p. 13. Type species—*Plectopylis coarctata* Möllendorff, 1894.

- coelestini* Haas, 1952; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., 34 (9): pp. 121–122, fig. 22—Huayumbe, Dist. Marcapata, Prov. Quispicanchi, Dept. Cuzco, Peru, at 630 meters elevation in Valley Rio Marcapata. Holotype FMNH 38125.
- concavispira* Haas, 1936; *Sitala*. Abhandl. senckenb. naturf. Ges., 431: pp. 19–20, pl. 1, fig. 6—south side of Ngorongoro Mountain, 1,800 meters elevation in rain-forest, German East Africa. Holotype SMF 8717.
- Conchodromus* Haas, 1930. Senckenbergiana, 12 (6): p. 317. New name for *Dromus* Simpson, 1900 not P. Selby, 1840.
- concolor* Haas, 1912; *Leptopoma celebesianum*. Ann. Mag. Nat. Hist. (8), 10 (58): p. 418—Mengkoka, SE Celebes, Indonesia. Holotype SMF 5909.
- congicum* Haas, 1936; *Sphaerium hartmanni*. Abhandl. senckenb. naturf. Ges., 431: p. 46—Moto near Aruwimi, Congo. Based on Pilsbry & Bequaert, 1927. Bull. Am. Mus. Nat. Hist., 53: p. 349, fig. 75.
- connectens* Haas, 1959, *Epiphragmophora* (*Epiphragmophora*). Fieldiana: Zool., 39 (31): pp. 368–371, fig. 64—Cambache near Chongoyape, Lambayeque, Peru. Holotype FMNH 51919.
- connollyi* Haas, 1932, *Ledoulxia*. Senckenbergiana, 14 (3): pp. 180–182, fig. 3—Djerokko, Dana-Gebiet, South Abyssinia. Holotype SMF 5097.
- consona* Haas, 1951; *Heudiella phaedusoides*. Arch. Mollusk., 80: p. 86. New name for *Ena* (*Heudiella*) *phaedusoides krejcii* Haas, 1933, not *Ena* (*Mirus*) *krejcii* Haas, 1933.
- continentalis* Haas, 1910; *Nodularia*. Ann. Mag. Nat. Hist. (8), 6 (35): p. 497—Hunan, Middle China. Holotype SMF 3643.
- contractus* Haas, 1934; *Viviparus* (*Bellamyia*). Zool. Anz., 106 (10): pp. 239–240, figs. 7–8—River Mafufuya, Kiala, Upper Katanga, Congo. Holotype Mus. Hist. Nat. Geneva 1116/26.
- Contradens* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., 45 (1): pp. 35–36. Type species—*Unio contradens* Lea, 1838.
- convexior* Haas, 1936; *Helicella* (*Jacosta*) *crenimargo*. Zool. Anz., 114 (11–12): p. 300, fig. 7—Konieh, Kleinasien (=Konya, Turkey). Holotype SMF 10544.
- corpulenta* Haas, 1932; *Neoglessula*. Senckenbergiana, 14 (3): pp. 183–184, fig. 9—Bu-saftu, South Abyssinia. Holotype SMF 5015.

- Cosmopseudodon* Haas, 1920. Syst. Conch. Cab. (9), 2 (2): p. 310.
Type species—*Pseudodon resupinatus* von Martens, 1902.
- costellifer* Haas, 1936; *Odontostomus* (*Spixia*). Senckenbergiana, 18 (3-4): pp. 152-153, figs. 24-26—"Mina," Hierrazuela, Argentina. Holotype SMF 10072.
- crassidens* Haas, 1910; *Nodularia douglasiae*. Ann. Mag. Nat. Hist. (8), 6 (35): p. 499—Hunan, North China. Holotype SMF 3659.
- crawfordi* Haas, 1955; *Limnothauma*. Trans. Linn. Soc. London (3), 1 (3): pp. 302-313, fig. 28—St. G.71.G.I.C. 968/2C, Titicaca Isle, Lake Titicaca, Peru, at 1 meter depth. Holotype BMNH 1956.11.5.1.
- cypria* Haas, 1933; *Helicella* (*Jacosta*) *syrensis*. Senckenbergiana, 15 (1-2): pp. 26-27, figs. 5-6—Mt. Pentadactylo, Cyprus. Holotype SMF 6835.
- dautzenbergi* Haas, 1936; *Aspatharia* (*Spathopsis*). Abhandl. senckenb. naturf. Ges., 431: p. 93, pl. 8, figs. 2a, 2b—Chambezi near Mbesuma, Northern Rhodesia. Holotype SMF 9545.
- demangei* Haas, 1929; *Cuneopsis*. Senckenbergiana, 11 (4): pp. 211-213, figs. 1, 2—River Song Dali near Vietri, Tonkin. Holotype SMF 3435.
- demmeri* Haas, 1912; *Hemiplecta*. Ann. Mag. Nat. Hist. (8), 10 (58): p. 413—Tongkok, Soembawa, Indonesia. Holotype SMF 5860.
- denserugata* Haas, 1910; *Nodularia*. Ann. Mag. Nat. Hist. (8), 6 (35): p. 496—Hainan, China. Holotype SMF 3630 (destroyed during war).
- depressus* Haas, 1936; *Bulinus* (*Bulinus*) *hemprichii*. Abhandl. senckenb. naturf. Ges., 431: p. 28, pl. 1, fig. 15a-c—Canal near Nsombo Village near Lake Bangweolo, Northern Rhodesia. Holotype SMF 7797.
- Diaopeas* Haas, 1962. Studies Fauna Curaçao Caribb. Is., 13 (58): pp. 55-56. New name for *Synopeas* Jousseaume, 1889, not Forster, 1856.
- dichroa* Haas, 1929; *Temesa*. Senckenbergiana, 11 (1-2): pp. 10-11, figs. 4, 5—Timuxi, Bolivia, at 3,600 meters elevation. Holotype SMF 3448.
- Digerus* Haas, 1937. Arch. Moll., 69 (5/6): pp. 245-246. Type species—*Helix gibberula* Burrow, 1825.

- Digulella* Haas, 1934. Arch. Moll., **66** (6): pp. 355-356. Type species—*Pupa (Ennea) capitata* Gould, 1843.
- dilatatum* Haas, 1955; *Aperostoma (Incidostoma)*. Fieldiana: Zool., **34** (35): pp. 363-364, fig. 71—Contamaná, Rio Ucayali, Peru. Holotype FMNH 47081.
- Diplopseudodon* Haas, 1920. Syst. Conch. Cab. (9), **2** (2): p. 313. Type species—*Pseudodon crassus* Drouët, 1892.
- discoideus* Haas, 1933; *Cyclotus*. Arch. Moll., **65** (6): p. 271. New name for *Cyclotus discoideus* Haas, 1912, not Sowerby 1843.
- discoideus* Haas, 1912; *Cyclotus*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 417—Kabaëna Island off SE Celebes, Indonesia. Holotype SMF 5906.
- disculina* Haas, 1933; *Bradybaena*. Senckenbergiana, **15** (5-6): pp. 314-316, fig. 5—Yangtse-Kiang, between Sanjingpan and Hweilitshou, Prov. Szytschuan, South China. Holotype SMF 6459.
- distinguenda* Haas, 1936; *Helicella (Xerotricha) conspurcata*. Zool. Anz., **114** (11-12): pp. 300-301, fig. 8—near Limassol, Cyprus. Holotype SMF 10418.
- duumvirorum* Haas, 1951; *Dyakia*. Fieldiana: Zool., **31** (46): pp. 624-625, figs. 132-133—6 miles ESE of Kuching, Sarawak. Holotype FMNH 38102.
- dybasi* Haas, 1947; *Polyhyba*. Fieldiana: Zool., **31** (22): pp. 180-182, fig. 34a, b—Northeastern coast of Saipan, Marianas. Holotype FMNH 27949.
- Ecpomastrum* Haas, 1957. Arch. Moll., **86** (4/6): p. 137. Type species—*Ecpomastrum mirum* Haas, 1957.
- effusa* Haas, 1949; *Sioliella*. Ann. Inst. Biol. Mexico, **20** (1-2): pp. 309-310, figs. 1, 2—Rio Tapajóz at Belterra, Pará, Brazil. Holotype FMNH 29209.
- elata* Haas, 1936; *Bocageia (Liobocageia)*. Abhandl. senckenb. naturf. Ges., **431**: pp. 13-14, pl. 1, fig. 10—south cliff of Ngoro-ngoro Mtn., 1,700 meters elevation, German East Africa. Holotype SMF 8751.
- elbertae* Haas, 1912; *Limnaea javanica*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 416—swamps of Sembaloen Plain, Lombok, Indonesia. Holotype SMF 5898.

- elberti* Haas, 1912; *Planorbis* (*Gyraulus*). Ann. Mag. Nat. Hist. (8), **10** (58): p. 417—swamps of Sembaloen Plain, Lombok, Indonesia. Holotype SMF 5896.
- elberti* Haas, 1912; *Prosopeas*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 416—Sadjang, Lombok, Indonesia. Holotype SMF 5903.
- elberti* Haas, 1912; *Septaria*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 419—Kali Spi, Flores, Indonesia. Holotype SMF 5973.
- elberti* Haas, 1912; *Xesta everetti*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 412—Tongkok, Soembawa, Indonesia. Holotype SMF 3373.
- Elongaria* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., **45** (1): pp. 34–35. Type species *Unio orientalis* Lea, 1840.
- eucosmetus* Haas, 1955; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **37**: pp. 331–333, figs. 71–72—Cambache near Chongoyape, Lambayeque, Peru. Holotype FMNH 51920.
- extensus* Haas, 1955; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., **37**: pp. 323–324, fig. 67—Hacienda Palmira, Andahuaylas, Apurímac, Peru. Holotype FMNH 51312.
- extraneus* Haas, 1955; *Bulimulus* (*Lissoacme*). Fieldiana: Zool., **34** (35): pp. 382–383, fig. 82—summit of Apacará-tepui, NW part of Chimantá-massif, State of Bolívar, Venezuela, at 2,100 meters elevation. Holotype FMNH 49736.
- extraneus* Haas, 1955; *Streptaxis* (*Streptartemon*). Arch. Mollusk., **84** (1–3): pp. 102–103, figs. 1–3—Serra Formosa near Mulata, Monte Alegre, Pará, Brazil. Holotype FMNH 52354.
- eyerdami* Haas, 1951; *Leptinaria* (*Lamellaxis*). Fieldiana: Zool., **31** (46): p. 542, fig. 124—Baños, Tunguragua, Ecuador. Holotype FMNH 30844.
- fagundes* Haas, 1938; *Potamopyrgus*. Arch. Mollusk., **70** (1): p. 50, figs. 8–9—Recife, State Pernambuco, NE Brazil. Holotype SMF 24376.
- festivus* Haas, 1941; *Latirus*. Field Mus. Nat. Hist., Zool. Ser., **24**: pp. 167–169, pl. 1, pl. 2, figs. a, b—Mujeres Island, Yucatan, Mexico. Holotype FMNH 13754.
- fonsecanus* Haas, 1961; *Bulimulus* (*Rhabdotus*). Fieldiana: Zool., **44** (3): pp. 20–21, figs. 11a, b—Gulf of Fonseca, San Salvador or Nicaragua. Holotype FMNH 106702.
- fragilis* Haas, 1949; *Pleurodonte* (*Labyrinthus*). Arch. Moll., **78** (4/6): p. 155, pl. 7, fig. 3—forest in Belterra (Lower Rio Tapajóz), Pará, Brazil. Holotype FMNH 30399.

- Fultonelma* Haas, 1951. *Nautilus*, **64** (4): pp. 133-134. Type species—*Bulimus inconspicuus* Morelet, 1881.
- fultoni* Haas, 1930; *Contradens semmelincki*. *Senckenbergiana*, **12** (1): pp. 9-10, fig. 8—Manson, Tonkin. Holotype SMF 3735.
- gentilis* Haas, 1911; *Unio*. *Nachr. Bl. dtsch. malak. Ges.*, **43** (3): pp. 151-153—Maritza near Philippopol, Bulgaria. Holotype SMF 10747.
- gibber* Haas, 1949; *Drymaeus* (*Drymaeus*). *Fieldiana: Zool.*, **31** (28): pp. 238-240, figs. 50c, 51a-d—Divisoria, Dept. Huanuco, Peru, at 5,000 ft. elevation. Holotype FMNH 30042.
- Globotrochus* Haas, 1935. *Arch. Moll.*, **67** (1): pp. 46-47. Type species—*Helix onestera* Mabilie, 1887.
- gorgonensis* Haas, 1966; *Drymaeus*. *Fieldiana: Zool.*, **44** (25): pp. 233-234, fig. 49—Island of Gorgona, Dept. Cauca, west coast of Colombia 78°11'W 3°N. Holotype FMNH 114164.
- gracile* Haas, 1937; *Pupisoma* (*Pupisoma*). *Arch. Moll.*, **69** (1/2): pp. 9-10, pl. 2, figs. 21-23—Bosoboso Mtns., Laguna Bay, Luzon, Philippines. Holotype SMF 10766.
- gracile* Haas, 1955; *Strombopoma*. *Trans. Linn. Soc. London* (3), **1** (3): p. 298, fig. 23—G 115.G.I.C.1194/9, 2-3 meters depth, Lagunilla Lagunilla, Titicaca Basin, Peru. Holotype BMNH 1956.11.5.307.
- gracilis* Haas, 1937; *Boysidia* (*Boysidia*). *Arch. Mollusk.*, **69** (1-2): pp. 7-8, pl. 2, figs. 18-20—Badung, Hubei (=Hupé), China. Holotype SMF 10764.
- gracilis* Haas, 1910; *Hyriopsis*. *Nachr. Bl. dtsch. malak. Ges.*, **42** (3): pp. 101-102—Bienho-Sei, Mikong, Indochina. Holotype SMF 3577 (destroyed during war).
- gracillima* Haas, 1936; *Rachis*. *Abhandl. Senckenb. naturf. Ges.*, **431**: p. 21, pl. 1, fig. 7—Buiko on the South side of Pare Mtns., German East Africa. Holotype SMF 8725.
- grande* Haas, 1937; *Hypselostoma luzonicum*. *Arch. Moll.*, **69** (1/2): pp. 6-7, pl. 2, figs. 13-15—Atimonan, east coast Tayabas, Philippines. Holotype SMF 10771.
- graueri* Haas, 1927; *Caelatura*. *Senckenbergiana*, **9** (1). pp. 21-23, pl. 1, figs. 2-4—Ukaika forest, NW of Lake Albert-Edward, Inner Africa. Holotype SMF 3281.

- griffini* Haas, 1955; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (35): pp. 383-384, fig. 83—western side of Abacapa-tepui, drainage of Abacapa River, Chimantá massif, in the State of Bolívar, Venezuela, at 1,300 meters altitude. Holotype FMNH 49734.
- gründleri* Haas, 1912; *Trochomorpha* (*Videna*). Ann. Mag. Nat. Hist. (8), **10** (58): p. 415—Swela, island of Lombok, Indonesia. Holotype SMF 5894.
- guayanensis* Haas, 1929; *Diplodon*. Senckenbergiana, **11** (1/2): p. 12, figs. 6, 7—NW British Guiana. Holotype SMF 3439.
- gyrellina* Haas, 1951; *Systrophia* (*Systrophella*). Fieldiana: Zool., **31** (46): pp. 534-535, fig. 118—Valley of Mantaro River, Huanca-mayo, Peru. Holotype FMNH 30532.
- haenkei* Haas, 1955; *Bulimulus* (*Scutalus*). Fieldiana: Zool., **34** (35): pp. 372-373, fig. 76—Alto Plano, Bolivia, at 3,000 meters elevation. Holotype FMNH 50732.
- hageni* Haas, 1912, *Nanina butonensis*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 414—Baoe-baoe, Boeton, Indonesia. Holotype SMF 5856.
- hassiae* Haas, 1908; *Unio*. Nachr. Bl. dtsh. malak. Ges., **40** (4): p. 175—Old Rhine near Hessen, Germany. Holotype SMF 15713.
- hasta* Haas, 1912; *Prosopeas*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 416—Swela, Lombok, Indonesia. Holotype SMF 5902.
- heimburgi* Haas, 1911; *Unio crassus*. Verh. naturh. Ver. preuss. Rheinlands und Westfalens, **68**: p. 527, pl. 5, fig. 20—Eder River near Hatzfeld, Germany. Holotype SMF 4389.
- Heligmopoma* Haas, 1955. Trans. Linn. Soc. London (3), **1** (3): pp. 300-301. Type species—*Heligmopoma umbilicatum* Haas, 1955.
- hemiomphalos* Haas, 1951; *Epiphragmophora* (*Epiphragmophora*). Fieldiana: Zool., **31** (46): pp. 526-527, fig. 112—"Peru." Holotype FMNH 30902.
- hermanni* Haas, 1929; *Elliptio* (*Nephronaias*). Senckenbergiana, **11** (5/6): pp. 323-324, figs. 12-13—Arroyo Limon, Tabasco, Mexico. Holotype SMF 3488.
- hertleini* Haas, 1961; *Polygyra* (*Erymodon*). Fieldiana: Zool., **44** (3): pp. 21-23, fig. 12a-c—Tenecatila Bay, Jalisco, Mexico (about 1½ to 2 miles up trail). Holotype FMNH 106703.
- hexameri* Haas, 1911; *Unio batavus*. Verh. naturh. Ver. preuss. Rheinlande und Westfalens, **68**: p. 526, pl. 4, fig. 2—Modau near

Grossbiberau, Odenwald, Hessen, Germany. Holotype SMF 11001.

hidalgoi Haas, 1916; *Diplodon*. Treb. Mus. Nac. Cienc. Nat. Madrid, ser. Zool. (25): pp. 18–21, pl. 1, fig. 1—Miquelete River, Uruguay. Holotype Nat. Mus. Nat. Sci., Madrid.

hirasei Haas, 1911; *Nodularia*. Nachr. Bl. dtsh. malak. Ges., 43 (1): pp. 45–46—Yamashiro, Japan. Holotype SMF 3639.

hova Haas, 1961; *Malarinia*. Fieldiana: Zool., 44 (3): pp. 19–20, fig. 10—Chutes de la Mort, Madagascar. Holotype FMNH 106701.

hummelincki Haas, 1960; *Gastrocopta (Immersidens)*. Studies on the Fauna of Curaçao and other Caribbean Islands, 10 (41): p. 14, fig. 2, pl. 5 J–N. Holotype FMNH 65270.

hunanensis Haas, 1910; *Parreyssia*. Nachr. Bl. dtsh. malak. Ges., 42 (3): pp. 97–98—Hunan, Middle China. Holotype SMF 3595.

Hydracme Haas, 1938. Arch. Mollusk., 70 (1): pp. 46–48. Type species—*Hydracme rudolphi* Haas, 1938.

hyperlepta Haas, 1952; *Ithyocythara*. Fieldiana: Zool., 34 (20): pp. 207–208, fig. 42—Illa Grande, Rio de Janeiro, Brazil. Holotype FMNH 43963.

impressa Haas, 1951; *Systrophia (Systrophia)*. Fieldiana: Zool., 31 (46): pp. 531–533, fig. 116—"South America." Holotype FMNH 30528.

inangulata Haas, 1910; *Cristaria*. Ann. Mag. Nat. Hist. (8), 6 (35): p. 499—Tonkin. Holotype SMF 3665.

inconspicua Haas, 1938; *Littoridina*. Arch. Moll., 70 (1): p. 51, fig. 10—Lagõa do Norte, State Alagõas, NE Brazil. Holotype SMF 24381.

inconspicuus Haas, 1949; *Bulimulus (Bulimulus)*. Fieldiana: Zool., 31 (28): pp. 236–237, fig. 50a—Contamana on Ucayali River, Dept. Loreto, Peru. Holotype FMNH 30038.

indecisum Haas, 1952; *Aperostoma (Aperostoma)*. Fieldiana: Zool., 34 (9): pp. 114–115, fig. 17—Contamano, Ucayali River, Peru, at 200 meters elevation. Holotype FMNH 38376.

inornata Haas, 1951; *Solaropsis (Psadara)*. Fieldiana: Zool., 31 (46): pp. 527–528, fig. 113—Rio Chusgon, affluent of the Marañon River, at Hacienda Santa Elena, Peru, 1,600–2,150 meters elevation. Holotype FMNH 30929.

- insularis* Haas, 1950; *Pedipes*. Proc. Malac. Soc. London, **28** (4-5): pp. 197-199, pl. 22, fig. 3—"Lovers Lake," extreme west end of St. George's Island, Bermuda. Holotype FMNH 30171.
- Inversidens* Haas, 1911. Syst. Conch. Cab. (9), **2** (2): p. 102. Type species *Nodularia parcedentata* Haas, 1911.
- iridescent* Haas, 1912; *Everettia*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 414—Swela, island of Lombok, Indonesia. Holotype SMF 5887.
- Josephinella* Haas, 1936. Arch. Moll., **68** (3): pp. 130-131. Type species—*Helix hemonica* Thiesse, 1884.
- juliani* Haas, 1955; *Plecocheilus* (*Eurytus*). Fieldiana: Zool., **34** (35): pp. 375-377, fig. 78—summit of Apacará-tepui, NW part of Chimantá-massif, Bolívar, Venezuela. Holotype FMNH 49737.
- kabaënae* Haas, 1912; *Clausilia* (*Pseudonenia*) *simillima*. Ann. Mag. Nat. Hist. (8), **10** (58): pp. 415-416—Kobaëna Island, off SE Celebes, Indonesia. Holotype SMF 5904.
- kalinowskii* Haas, 1955; *Nenia* (?) *angrandi*. Fieldiana: Zool., **37**: pp. 306-307, fig. 58—Polanco, Tambo, San Miguel, Ayacucho, Peru, at 4,100 meters elevation. Holotype FMNH 51363.
- Kalliphenga* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: pp. 72-73. Type species—*Caelatura ruellani* Bourguignat, 1883.
- Karlschmidtia* Haas, 1955. Fieldiana: Zool., **37**: pp. 327-328. Type species—*Karlschmidtia lentiformis* Haas, 1955.
- katangae* Haas, 1934; *Biomphalaria ruppellii*. Zool. Anz., **107** (7-8): pp. 223-224, fig. 3—Tributary of Mura River near Panda, east of Mt. Karajipopo, Upper Katanga, Congo. Holotype—Mus. Hist. Nat., Geneva, Switzerland 1116/34.
- kinkelini* Haas, 1908; *Unio*. Nachr. Bl. dtsh. malak. Ges., **40** (4): pp. 177-178—Rhine, near Mosbach, Biebrich, Hessen, Germany. Holotype SMF XV 1267a.
- Kionoptyx* Haas, 1966. Fieldiana: Zool., **44** (25): pp. 239-241, fig. 57a, b. Type species—*Kionoptyx sagasteguii* Haas, 1966.
- Kistinaia* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: p. 64. Type species—*Caelatura* (*Kistinaia*) *schoutedeni* Haas, 1936.
- kobeltianus* Haas, 1913; *Unio batavus*. Nachr. Bl. dtsh. malak. Ges., **45** (3): pp. 105-106—Roten Main near Emtmannsberg, Bavaria. Holotype SMF 10998.

- kohl-larseni* Haas, 1936; *Diaphera* (*Huttonella*). Abhandl. senckenb. naturf. Ges., **431**: p. 18, pl. 1, fig. 6—south side of Ngoro-ngoro Mt., German East Africa at 1,800 meters elevation. Holotype SMF 8673.
- krejci* Haas, 1933; *Ena* (*Mirus*). Senckenbergiana, **15** (5/6): p. 319, figs. 7, 7a, west of Lu-Ho (=Ta-Tu-Ho) between Tapienpu and Jaszkon, Prov. Szytschuan, South China. Holotype SMF 6465.
- krejci* Haas, 1933; *Ena* (*Heudiella*?) *phaedusoides*. Senckenbergiana, **15** (5/6): pp. 320–321, fig. 11 (= *Heudiella phaedusoides consona* Haas, 1951, in Arch. Moll., **80**: p. 86)—4 km. from Hsa pin tshan, North of Tungho, Prov. Szytschuan, South China. Holotype SMF 6461.
- krejci* Haas, 1933; *Xestina chrysoraphe*. Senckenbergiana, **15** (5/6): p. 319, fig. 8—west of Lu-Ho (Ta-Tu-Ho) between Tapienpu and Jaszkon, Prov. Szytschuan, South China. Holotype SMF 6458.
- küsteri* Haas, 1913; *Pseudanodonta compacta*. Nachr. Bl. dtseh. malak. Ges., **45** (3): p. 108—Wornitz near Dinkelsbühl, Bavaria, Germany. Holotype SMF 10619.
- lacustris* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), **1** (3): p. 287, fig. 10—P.15, G.I.C. 832/2b, 2 meters, Paton, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.816.
- laevis* Haas, 1910; *Ptychorhynchus*. Ann. Mag. Nat. Hist. (8), **6** (35): p. 498—Saghalin Island, USSR. Holotype SMF 3626.
- lagunarum* Haas, 1955; *Anisancylus*. Trans. Linn. Soc. London (3), **1** (3): pp. 283–284, fig. 7—G 26 G.I.C. 1220/6, 0.8 meters depth, Lagunilla Saraconcha, Lagunilla River, Titicaca Basin, Peru. Holotype BMNH 1956.11.5.1265.
- languiensis* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), **1** (3): pp. 287–288, fig. 11—G.I.C. 1082/1b, 0.8 meters depth, Lake Langui (Titicaca Basin), Peru. Holotype BMNH 1956.11.5.659.
- lasalleanus* Haas, 1959; *Dryptus*. Fieldiana: Zool., **39** (31): pp. 363–364, fig. 60—Mucurubá, State of Mérida, Venezuela. Holotype—Museum of the Sociedad de Ciencias Nats. LaSalle, Caracas, Venezuela.
- late-aperta* Haas, 1936, *Halolimnohelix*. Abhandl. senckenb. naturf. Ges., **431**: pp. 10–11, pl. 1, fig. 1—Ngoro-ngoro Mt., German East Africa at 1,800 meters elevation. Holotype SMF 8175.

- latitesta* Haas, 1952, *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (9): pp. 117–118, fig. 19—Hacienda Cadena, Dist. Marcapata, Prov. Quispicanchi, Dept. Cuzco, Peru in Rio Marcapata valley at 1,000 meters elevation. Holotype FMNH 38120.
- latus* Haas, 1949; *Potamopyrgus* (*Aroa*). Ann. Inst. Biol. Mexico, **20** (1–2): pp. 312–313, fig. 5—Tapajóz River at Santarem, Mapire Bay, Pará, Brazil. Holotype FMNH 29202.
- lauterborni* Haas, 1936; *Lartetia sterkiana*. Senckenbergiana, **18** (3/4): pp. 146–147, figs. 10–11—Brunnenstuben near Eichstetten near Kaiserstuhl, Germany. Holotype SMF 10079.
- lauterborni* Haas, 1909; *Unio*. Nachr. Bl. dtsch. malak. Ges., **41** (2) Beitrage III: pp. 46–48—Old Rhine near Neuhausen, Ludwigshafen, Germany. Holotype SMF 10879.
- Leiovirgus* Haas, 1911. Syst. Conch. Cab. (9), **2** (2): p. 132. Type species—*Unio misoolensis* Schepman, 1896.
- lentiformis* Haas, 1955; *Karlschmidtia*. Fieldiana: Zool., **37**: pp. 328–329, fig. 69—Hacienda Mozobamba, Andahuaylas, Apurimac, Peru. Holotype FMNH 51271.
- leoni* Haas, 1935; *Placostylus* (*Placostylus*). Zool. Anz., **109** (7/8): pp. 189–190, fig. 5—Pointe d'Artillerie near Nouméa, New Caledonia. Holotype SMF 9358.
- leucobasis* Haas, 1951; *Epiphragmophora* (*Epiphragmophora*). Fieldiana: Zool., **31** (46): pp. 524–526, fig. 11—Chincheros, near Río Pampas, Peru, at 3,000 meters elevation. Holotype FMNH 30923.
- limicolaroides* Haas, 1936; *Drymaeus* (*Drymaeus*). Senckenbergiana, **18** (3/4): p. 150, figs. 12, 13—São Paulo, Brazil. Holotype SMF 10077.
- Limnothauma* Haas, 1955. Trans. Linn. Soc. London (3), **1** (3): p. 302. Type species—*Limnothauma crawfordi* Haas, 1955.
- Lindholmomneme* Haas, 1936. Senckenbergiana, **18** (3/4): p. 144. Type species—*Helix* (*Trichia*) *rhysota* var. *altaica* Westerlund, 1896.
- liratinus* Haas, 1934; *Bulinus* (*Physastra*) *confertus*. Arch. Moll., **66** (3): p. 150. New name for *Physa lirata* Tennison-Woods, 1879 not Mousson, 1874.

- lombocensis* Haas, 1912; *Vivipara javanica*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 418—Bajan, Lombok, Indonesia. Holotype SMF 5977.
- longinqua* Haas, 1949; *Alabina*. Bull. Inst. Catalana Hist. Nat., **37**: pp. 71–72, fig. 5—32°0.8.2'N, 64°33'W, off Bermuda coast at 1,700 fathoms. Holotype FMNH 31660.
- longitudinalis* Haas, 1955; *Bulimulus (Scutalus)*. Fieldiana: Zool., **37**: pp. 316–317, fig. 63—Polanco, Tambo, San Miguel, Ayacucho, Peru. Holotype FMNH 51328.
- losadae* Haas, 1966; *Diplodon (Diplodon)*. Fieldiana: Zool., **44** (25): p. 238, figs. 54–56—Caño Losada, upper Rio Guayabero, Orinoco system, Dept. Meta, Colombia (ca. 74°9'W, 2°9'N). Holotype FMNH 114042.
- lubanicum* Haas, 1937; *Hypselostoma luzonicum*. Arch. Moll., **69** (1/2): p. 7, pl. 2, figs. 16–17—Luban Island near Mindoro, Philippines. Holotype SMF 10773.
- Lubricetta* Haas, 1928. Senckenbergiana, **10** (3/4): p. 94. Type species—*Bocageia rollei* Haas, 1928.
- lymnaeiformis* Haas, 1936; *Cerastus (Cerastus)*. Abhandl. senckenb. naturf. Ges., **431**: pp. 21–22, pl. 1, figs. 8a, b.—Ngoro-ngoro Mt., German East Africa, south slope at 1,899 meters elevation in rain forest. Holotype SMF 8809.
- magnum* Haas, 1955; *Rhamphopoma*. Trans. Linn. Soc. London (3), **1** (3): p. 299, fig. 24—P.8, G.I.C. 499, 3.5–4.5 meters depth, Chococoya, Lago Grande, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.167.
- Malarinia* Haas, 1961. Fieldiana: Zool., **44** (3): p. 19. Type species—*Malarinia hova* Haas, 1961.
- malkini* Haas, 1962; *Epiphragmophora (Epiphragmophora)*. Fieldiana: Zool., **44** (10): pp. 67–68, fig. 19—San Francisco near Tarendra, Prov. Santa Cruz, Bolivia. Holotype FMNH 112122.
- Maoristylus* Haas, 1935. Zool. Anz., **109** (7/8): p. 188. Type species—*Bulimus hongii* Lesson, 1830.
- Margaritanopsis* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., **45** (1): p. 33. Type species—*Unio laosensis* Lea, 1863.
- maritzana* Haas, 1913; *Vivipara*. Nachr. Bl. dtsh. malak. Ges., **45** (2): pp. 71–72—Maritza near Philippopel, Bulgaria. Holotype SMF 47972.

- Marshalliella* Haas, 1931. *Senckenbergiana*, **13** (1): pp. 50–51. Type species—*Plagiodon balzani* von Ihering, 1893.
- marvomoustakisi* Haas, 1933; *Helicella* (*Xeropicta*) *protea*. *Senckenbergiana*, **15** (1/2): p. 26, figs. 1–2—Limassol, Cyprus. Holotype SMF 6271.
- marvomoustakisi* Haas, 1934; *Retinella* (*Calloretinella*). *Senckenbergiana*, **16** (1): pp. 16–17, fig. 8—Paramali, Cyprus. Holotype SMF 6708.
- maximella* Haas, 1936; *Helicella* (*Jacosta*). *Zool. Anz.*, **114** (11/12): p. 298, figs. 3–4—near Castelvetro, Sicily. Holotype SMF 10538.
- mermodi* Haas, 1934; *Afropunctum*. *Zool. Anz.*, **107** (7/8): pp. 221–222, figs. 1, 1a, 1b—Luluabourg, Congo. Holotype—Mus. d'Hist. Nat., Geneva, Switzerland 1116/34.
- Mesafra* Haas, 1936. *Abhandl. senckenb. naturf. Ges.*, **431**: p. 83. Type species—*Caelatura mesafricana* Pilsbry & Bequaert, 1927.
- micra* Haas, 1952; *Natica* (*Tectonatica*). *Fieldiana: Zool.*, **34** (20): pp. 206–207, fig. 41—Illa Grande, Rio de Janeiro, Brazil. Holotype FMNH 43961.
- microembix* Haas, 1935; *Ganesella*. *Zool. Anz.*, **109** (7/8): p. 191, fig. 6—Chang-yang, Prov. Szetschuan, China. Holotype SMF 9340.
- microglypta* Haas, 1943; *Alvania* (*Willexia*). *Field Mus. Nat. Hist., Zool. Ser.*, **29** (1): pp. 2–4, fig. 1a, b, c—Point Pinos, Monterey Peninsula, California. Holotype FMNH 17028.
- microhelix* Haas, 1951; *Radiodiscus* (*Radioconus*). *Fieldiana: Zool.*, **31** (46): pp. 538–539, fig. 121—Chanchamayo Valley, Peru, at 800 meters elevation. Holotype FMNH 30921.
- minuta* Haas, 1951; *Chilina*. *Fieldiana: Zool.*, **31** (46): pp. 542–543, fig. 125—Baños Morales near Santiago, Chile. Holotype FMNH 30941.
- mirum* Haas, 1957; *Ecpomastrum*. *Arch. Moll.*, **86** (4–6): pp. 137–138, figs. 1–2—Bucht von Puno, Lake Titicaca, Peru, at 25 meters depth. Holotype SMF 125300.
- moellendorffi* Haas, 1934; *Amphidromus* (*Amphidromus*). *Senckenbergiana*, **16** (2/3): p. 96, fig. 13—Hinlap, Siam. Holotype SMF 7688. New name for *Amphidromus kobelti* Moellendorff, 1902, not Rolle, 1893.

- moellendorffi* Haas, 1910; *Pressidens*. Nachr. Bl. dtsh. malak. Ges., **42** (3): p. 103—Palawan, Philippine Islands. Holotype SMF 3600.
- monardi* Haas, 1935; *Pseudoglessula* (*Ischnoglessula*). Zool. Anz., **109** (7/8): pp. 191–192, fig. 7—Elende, Central Angola. Holotype—Mus. in La Chaux-de-Fonds, Switzerland.
- monardi* Haas, 1934; *Viviparus* (*Bellamyia*). Zool. Anz., **106** (10): pp. 237–239, figs. 1–6—Kilui, River Kunene, South Angola. Holotype—Mus. Hist. Nat., Geneva, Switzerland 1116/28.
- moncieuxi* Haas, 1934; *Tayloria* (*Tayloria*). Zool. Anz., **107** (7–8): pp. 222–223, fig. 2—River Mbura near Panda, upper Katanga, Congo. Holotype—Mus. Hist. Nat., Geneva, Switzerland 1116/31.
- montis-avium* Haas, 1914; *Bythinella compressa*. Nachr. Bl. dtsh. malak. Ges., **46** (1): pp. 38–39—spring at Hoherodskopf in the Vogelsberg, Hessen, Germany. Holotype SMF 4083.
- mordens* Haas, 1952; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., **34** (9): pp. 128–129, fig. 25—Yungas del Palmar, 1,000 meters elevation, Andean Region, Bolivia. Holotype FMNH 39413.
- multigradata* Haas, 1936; *Helicella* (*Jacosta*). Zool. Anz., **114** (11/12): pp. 299–300, fig. 6—Eski Schehir, NW Kleinasien. Holotype SMF 10542.
- munda* Haas, 1951; *Helicina* (*Helicina*). Fieldiana: Zool., **31** (46): pp. 543–544, fig. 126—Ayancocha, near Huanuco, Peru, at 2,200 meters elevation. Holotype FMNH 30937.
- mundi-perditi* Haas, 1955; *Plecocheilus* (*Eurytus*). Fieldiana: Zool., **34** (35): pp. 378–380, fig. 80—Chimantá-massif near Rio Tirica, Bolívar, Venezuela, at 2,100 meters elevation. Holotype FMNH 52436.
- Mweruëlla* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: p. 63. Type species—*Unio mweruensis* E. A. Smith, 1908.
- nana* Haas, 1950; *Auriculastra*. Proc. Malac. Soc. London, **28** (4–5) p. 197, pl. 22, figs. 1–2—“Lovers Lake,” extreme west of St. George’s Island, Bermuda. Holotype FMNH 30169.
- nana* Haas, 1912; *Limnaea javanica*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 416—rapids of Kali Poetih R., Lombok, Indonesia. Holotype SMF 5900.

- nanus* Haas, 1951; *Obeliscus* (*Protobeliscus*). Fieldiana: Zool., **31** (46): pp. 541-542, fig. 123—Chanchamayo Valley, Peru, at 800 meters elevation. Holotype FMNH 30931.
- Nesiberus* Haas, 1934. Arch. Moll., **66** (6): pp. 354-355. Type species—*Helix pythiusensis* Bofill & Aguilar-Amat, 1924.
- Nesonaiia* Haas, 1913. Syst. Conch. Cab. (9), **2** (2): p. 137. Type species—*Ctenodesma guppyi* Smith, 1885.
- nicarica* Haas, 1908; *Anodonta* (*Pseudanodonta*). Nachr. Bl. dtsch. malak. Ges., **40** (4): p. 174—Neckar near Heidelberg, Baden-Württemberg, Germany. Holotype SMF 10627.
- nordestinus* Haas, 1938; *Diplodon* (*Diplodon*) *besckeanus*. Arch. Moll., **70** (1): p. 46, figs. 1-3—Rio São Francisco near Jatobá, NE Brazil. Holotype SMF 24362.
- nudatus* Haas, 1912; *Melanoides tuberculatus*. Ann. Mag. Nat. Hist. (8) **10** (58): p. 420—Segare Anak, Lombok, Indonesia. Holotype SMF 5965 (destroyed during war).
- Nyassunio* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: p. 85. Type species—*Unio nyassaensis* Lea, 1864.
- Obbiberus* Haas, 1935. Arch. Moll., **67** (1): p. 45. Type species—*Obba bulacanensis* Hidalgo, 1890.
- obeliscus* Haas, 1936; *Bulimulus* (*Rhinus*). Senckenbergiana, **18** (3-4): pp. 150-151, figs. 15-16—Santa Catharina, Brazil. Holotype SMF 10078.
- obesa* Haas, 1949; *Nenia* (*Columbinia*). Fieldiana: Zool., **31** (28): pp. 241-243, figs. 53, 54—Cerro Azul on Rio Ucayali, Dept. Loreto, Peru. Holotype FMNH 30025.
- obliquior* Haas, 1936; *Gonaxis* (*Gonaxis*) *ordinarius*. Abhandl. senckenb. naturf. Ges., **431**: p. 15, pl. 1, fig. 5—mountain 1,400 meters elevation, west of Bumbuli, Usambara, German East Africa. Holotype SMF 8675.
- Obstructio* Haas, 1939. Field Mus. Nat. Hist., Zool. Ser., **24** (8): pp. 99-100. Type species—*Planorbis janeirensis* Clessin, 1886.
- obvoluta* Haas, 1949; *Systrophia* (*Systrophia*). Fieldiana: Zool., **31** (28): pp. 244-245, fig. 56—Contamana on Rio Ucayali, Dept. Loreto, Peru. Holotype FMNH 30030.
- ornata* Haas, 1938; *Physa* (*Plesiophysa*). Arch. Moll., **70** (1): pp. 48-49, figs. 5-6—Açude Ligeiro, Serra Branca, Municipio São João do Cariry, State Parahyba, NE Brazil. Holotype SMF 24367.

- ornatissima* Haas, 1943; *Chrysallida* (*Chrysallida*). Field Mus. Nat. Hist., Zool. Ser., **29** (1): pp. 4-7, fig. 2a, b, c—Point Pinos, Monterey Peninsula, California. Holotype FMNH 17029.
- ortizianus* Haas, 1955; *Plecocheilus* (*Eurytus*). Fieldiana: Zool., **34** (35): pp. 366-367, fig. 73—near Chancay, between La Colmena and La Esperanza, Peru, at 1,200-1,900 meters elevation. Holotype FMNH 47083.
- ovata* Haas, 1910; *Microdontia*. Nachr. Bl. dtsh. malak. Ges., **42** (3): pp. 100-101—Fly River, near Konstantinhafen, New Guinea. Holotype SMF 3537.
- Oxynaia* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., **45** (1): p. 34. Type species—*Unio jourdyi* Morlet, 1886.
- palatinus* Haas, 1911; *Unio batavus*. Verh. naturh. Ver. preuss. Rheinlande und Westfalens, **68**: pp. 525-526, pl. 4, fig. 3—Queich, Rheinland, Pfalz, Germany. Holotype SMF 11003.
- parcedentata* Haas, 1911; *Nodularia*. Nachr. Bl. dtsh. malak. Ges., **43** (1): pp. 43-44—Nikawa, Japan. Holotype SMF 3646.
- parvula* Haas, 1908; *Margaritana margaritifera*. Nachr. Bl. dtsh. malak. Ges., **40** (4) Beiträge I: pp. 15-16—Ulfenback, near Affolterbach, Ovenwald, Germany. Holotype SMF 4982.
- parvum* Haas, 1955; *Rhamphopoma*. Trans. Linn. Soc., London (3), **1** (3): p. 300, fig. 25—P 26, G.I.C. 871/6, 5.4-7.3 meters depth, Molinopampa, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.160.
- peculiaris* Haas, 1934; *Planispira* (*Pseudopapuina*). Zool. Anz., **108** (7/8): p. 202—Sjerak Island, Tenimber Islands. Holotype SMF 8676.
- perforatus* Haas, 1951; *Bulimulus* (*Ataxus*). Fieldiana: Zool., **31** (46): pp. 518-519, fig. 106—Ninabamba on the Pampas River, affluent of the Apurimac River, Peru. Holotype FMNH 30906.
- pergracilis* Haas, 1952; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (9): pp. 122-123, fig. 23—Hacienda Cadena, Dist. Marcapata, Prov. Quispicanchi, Dept. Cuzco, Peru, at 1,000 meters elevation in the valley of Rio Marcapata. Holotype FMNH 38127.
- perplexum* Haas, 1938; *Sairostoma*. Arch. Moll., **70** (4): pp. 207-208, figs. 1-2—Surra Uruburetama between Fortaleza and Sobral, near São Francisco, State Ceará, Brazil at 500 meters elevation. Holotype SMF 35000.

- persculpta* Haas, 1910; *Nodularia*. Nachr. Bl. dtsh. malak. Ges., **42** (3): pp. 98–99—Hunan, Middle China. Holotype SMF 3632 (destroyed during war).
- persuturata* Bofill, Haas, and Aguilar-Amat, 1921; *Bythinella brevis*. Treb. Mus. Cienc. Nat. Barcelona, **3** (5): pp. 1020, 1213, pl. 2, figs. 27–30—Sante Fe, Mt. Montseny, Pyrenees, Spain. Holotype—Mus. de Catalunya.
- peruviana* Haas, 1951; *Solaropsis* (*Psadara*). Fieldiana: Zool., **31** (46): pp. 528–530, fig. 114—Sahuayaco, Urubamba Valley, Peru, at 800 meters elevation. Holotype FMNH 30928.
- pervarians* Haas, 1936; *Odontostomus* (*Spixia*). Senckenbergiana, **18** (3/4): pp. 151–152, figs. 17–23—Sierra de Achala near Candelaria, Prov. Salta, Argentina. Holotype SMF 10074.
- phacodes* Haas, 1935; *Tricheulota*. Zool. Anz., **109** (7/8): p. 194, fig. 11—unknown, possibly Philippine Islands. Holotype SMF 9342.
- phaeocheilus* Haas, 1955; *Bulimulus* (*Scutalus*). Fieldiana: Zool., **37**: pp. 334–335, fig. 74—Chongoyape, Lambayeque, Peru, at 300 meters elevation. Holotype FMNH 51918.
- picardi* Haas, 1933; *Helicella* (*Jacosta*) *ledereri*. Senckenbergiana, **15** (1/2): pp. 28–30, figs. 9–10—Kustenebene, 8 km. N of Tel-Aviv, near Jatfa, Palestine. Holotype SMF 6830.
- pilsbryi* Haas, 1934; *Epiphrammophora* (*Epiphragmophora*) Senckenbergiana, **16** (2/3): p. 95, figs. 6–10—Colombia, South America. Holotype SMF 7752.
- pitmani* Haas, 1934; *Viviparus unicolor*. Zool. Anz., **108** (7/8): p. 205, fig. 6—Kafue R. Zambesi-Gebiet in Mumbwa Dist., N. Rhodesia. Holotype SMF 8963.
- planior* Haas, 1951; *Happia* (*Happia*) *cuzcana*. Fieldiana: Zool., **31** (46): pp. 537–538, fig. 120—Oreja de Capedo, Chanchamayo, Peru, at 1,600 meters elevation. Holotype FMNH 30933.
- planorbina* Haas, 1912; *Chloritis*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 415—Roembia, southeast Celebes, Indonesia. Holotype SMF 5891.
- platycheilus* Haas, 1955; *Neopetraeus*. Fieldiana: Zool., **37**: pp. 311–313, figs. 60, 61—Hacienda Palmira, Andahuaylas, Apurimac, Peru. Holotype FMNH 51315.

- platysma* Haas, 1951; *Systrophia* (*Systrophia*). Fieldiana: Zool., 31 (46): pp. 530–531, fig. 115—Huarango, east side of Rio Chinchipe, close to Rio Marañon, Peru, at 1,400 meters elevation. Holotype FMNH 30926.
- platytrochus* Haas, 1935; *Aegista* (*Plectotropis*). Zool. Anz., 109 (7/8): pp. 192–194, figs. 9–10—Chang-yang, Prov. Szetschuan, China. Holotype SMF 9316.
- Pleurovalvata* Haas, 1939. Field Museum Nat. Hist., Zool. Ser., 24 (8): p. 101. Type species—*Valvata sincera* Say, 1824.
- Polyhyba* Haas, 1947. Fieldiana: Zool., 31 (22): pp. 180–182. Type species—*Polyhyba dybasi* Haas, 1947.
- posthumus* Haas, 1934; *Iberus* (*Iberus*) *gualtierianus*. Senckenbergiana, 16 (2/3): p. 98, figs. 14–16—Mountains near Mazarron, Prov. Murcia, Spain. Holotype SMF 7887.
- prashadi* Haas, 1922; *Trapezoideus*. Senckenbergiana, 4 (3/4): pp. 101–102—Mysore, southeast India. Holotype SMF 3614.
- Pressidens* Haas, 1910. Nachr. Bl. dtsh. malak. Ges., 42 (3): pp. 102–103. Type species—*Pressidens moellendorffi* Haas, 1910.
- probavaricus* Haas, 1911; *Unio batavas*. Verh. naturh. Ver. preuss. Rheinlande und Westfalens, 68: p. 526, pl. 4, fig. 9—Gersprenz near Ohlenbach, Odenwald, Hessen, Germany. Holotype SMF 11005.
- profunda* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), 1 (3): p. 289, fig. 13—MS/266, 66 meters, Taman Bay, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.654.
- profundicola* Haas, 1949; *Coralliophila*. Bull. Inst. Catalana Hist. Nat., 37: pp. 69–70, figs. 1–2—32°0.8.2'N, 64°33'W, 1,700 fathoms deep, off Bermuda coast. Holotype FMNH 31655.
- Prohyriopsis* Haas, 1914. Nachr. Bl. dtsh. malak. Ges., 46 (2): pp. 76–78. Type species—*Unio stolatus* von Martens, 1900.
- Protunio* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., 45 (1): p. 37. Type species—*Unio messageri* Bavay and Dautzenberg, 1901.
- pseudelatus* Haas, 1951; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., 31 (46): pp. 520–522, fig. 108—Anco on the Mantaro River, Peru, at 2,500 meters elevation. Holotype FMNH 30908.
- pseudocrassus* Haas, 1909; *Unio*. Nachr. Bl. dtsh. malak. Ges., 41 (1), Beiträge II: pp. 29–32—Old Rhine near Leimersheim, Oberrhein, Germany. Holotype SMF 10991.

- Pseudunio* Haas, 1910. Nachr. Bl. dtsh. malak. Ges., **42** (4): pp. 181-183. Type species—*Unio sinuata* Lamarck, 1819.
- Pseudopapuina* Haas, 1934. Zool. Anz., **108** (7/8): p. 202. Type species—*Planispira (Pseudopapuina) peculiaris* Haas, 1934.
- Psorula* Haas, 1930. Senckenbergiana, **12** (6): pp. 319-320. Type species—*Quadrula rudis* Simpson, 1900.
- punctilineatus* Haas, 1951; *Bulimulus (Scutalus)*. Fieldiana: Zool., **31** (46): pp. 517-518, fig. 105—Sahuayaco in the Urubamba Valley, Peru, at 800 meters elevation. Holotype FMNH 30914.
- pusilla* Haas, 1949; *Littoridina*. Ann. Inst. Biol., Mexico, **20** (1-2): p. 310, fig. 3—Lago do Tostão, Pará, Brazil, at 4.90 meters depth. Holotype FMNH 29205.
- pyrgidium* Haas, 1955; *Bulimulus (Peronaeus)*. Fieldiana: Zool., **37**: pp. 321-323, fig. 66—Hacienda Mozobamba, Ongoy, Andahuaylas, Apurimac, Peru, at 2,500 meters altitude. Holotype FMNH 51310.
- rarimaculata* Haas, 1912; *Nanina butonensis*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 414—Lipoemangaoe, SE Boeton, Indonesia. Holotype SMF 5851.
- rasori* Haas, 1912; *Hemiplecta*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 413—Raha, island of Moena, SE Celebes, Indonesia. Holotype SMF 5862.
- retinella* Haas, 1949; *Systrophia (Systrophia)*. Fieldiana: Zool., **31** (28): pp. 245-246, fig. 57—Contamana, on the Rio Ucayali, Dept. Loreto, Peru. Holotype FMNH 30035.
- Rhabdogulella* Haas, 1934. Arch. Moll., **66** (6): p. 356. Type species—*Ennea buchholtzi* von Martens, 1876.
- rhabdotus* Haas, 1951; *Bulimulus (Protoglyptus)*. Fieldiana: Zool., **31** (46): pp. 512-513, fig. 100—Ambo, near Huánuco, Peru, at 2,000 meters elevation. Holotype FMNH 30915.
- Rhampophoma* Haas, 1955. Trans. Linn. Soc. London (3), **1** (3): pp. 298-299. Type species—*Rhampophoma magnum* Haas, 1955.
- Rhombuniopsis* Haas, 1920. Senckenbergiana, **2** (5): p. 149. Type species—*Cuneopsis tauriformes* Preston, 1906.
- Rhytidonaia* Haas, 1936. Abhandl. senckenb. naturf. Ges., **431**: p. 65. Type species—*Caelatura graueri* Haas, 1936.

- rollei* Haas, 1928; *Bocogea (Lubricetta)*. Senckenbergiana, **10** (3/4): p. 94, figs. 5a, 5b, 6—near Nankluft, Gr. Nama-Land, SW Africa. Holotype SMF 3378.
- rosini* Haas, 1936; *Corbicula albida*. Abhandl. senckenb. naturf. Ges., **431**: pp. 41–42, pl. 3, fig. 2—Hunyani R., near Hunyani Drift, 20 km. south of Salisbury, S Rhodesia, Africa. Holotype SMF 8797.
- rudistriatus* Haas, 1955; *Bulimulus (Lissoacme)*. Fieldiana: Zool., **37**: pp. 318–319, fig. 64—Hacienda Palmira, Andahuaylas, Apurímac, Peru, at 2,200 meters elevation. Holotype FMNH 51342.
- rudolphi* Haas, 1938; *Hydracme*. Arch. Moll., **70** (1): pp. 46–48, fig. 4—Rio São Francisco near Jatobá, State Pernambuco, NE Brazil. Holotype SMF 24365.
- rugistriatus* Haas, 1952; *Drymaeus (Drymaeus)*. Fieldiana: Zool., **34** (9): pp. 120–121, fig. 21—Hacienda Cadena, Valley Rio Marcapata, Dist. of Marcapata, Prov. Quispicanchi, Dept. Cuzco, Peru, at 1,000 meters elevation. Holotype FMNH 38123.
- rugulosa* Haas, 1912; *Hemiplecta*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 412—Mengkoka, SE Celebes, Indonesia. Holotype SMF 5863.
- rüppelli* Haas, 1935; *Galeomma (Galeomma)*.—Zool. Anz., **109** (7/8): p. 195, figs. 12–13—Red Sea. Holotype SMF 9250.
- sabulosus* Haas, 1910; *Unio batavus*. Nachr. Bl. dtsch. malak. Ges., **42** (3), Beiträge IV: pp. 59–60—Geräthbach near Mörfelden, Hessen, Germany. Holotype SMF 11015.
- sagasteguii* Haas, 1966; *Kionoptyx*. Fieldiana: Zool., **44** (25): pp. 239–241, fig. 57a, b—Marcabal, Prov. Huamachuco, Dept. La Libertad, Peru (77°49'W, 7°37'S). Holotype FMNH 131682.
- Sairostoma* Haas, 1938. Arch. Moll., **70** (4): pp. 206–207. Type species—*Sairostoma perplexum* Haas, 1938.
- salinarum* Haas, 1929; *Rotundaria*. Senckenbergiana, **11** (5/6): pp. 339–340, figs. 20–21—Rio de las Salinas, N Guatemala. Holotype SMF 3487.
- Salpingoma* Haas, 1937. Arch. Moll., **69** (1/2): pp. 10–11. Type species—*Helix (Acanthinula) harpula* Reinhardt, 1886.
- sanborni* Haas, 1947; *Bulimulus (Scutalus)*. Fieldiana: Zool., **31** (22): pp. 176–178, fig. 33—Carhuamayo, basin of Lake Junin, Dept. Loreto, Peru, at 15,000–18,000 ft. elevation. Holotype FMNH 25880.

- saracochae* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), 1 (3): pp. 289-290, fig. 14—G 125.G.I.C. 1215/2b, 2 meters, Lagunilla Saracocha, Saracocha River, Titicaca Basin, Peru. Holotype BMNH 1956.11.5.374.
- satura* Haas, 1936; *Gulella* (*Primigulella*). Abhandl. senckenb. naturf. Ges., 431: pp. 16-17, pl. 1, figs. 2, 2a—mountain west of Bumbuli, Usambara, German East Africa at 1,400 meters elevation. Holotype SMF 8669.
- sautteri* Haas, 1910; *Cristaria discoidea*. Ann. Mag. Nat. Hist. (8), 6 (35): p. 499—Lake Candidins, Formosa. Holotype SMF 3668.
- Scabies* Haas, 1911. Syst. Conch. Cab. (9), 2 (2): p. 105. Type species—*Nodularia persculpta* Haas, 1910.
- scharonica* Haas, 1936; *Helicella* (*Xerocrassa*) *seetzeni*. Zool. Anz., 114 (11/12): pp. 301-304, figs. 12-13—Scharon-Ebene, Palestine. Holotype SMF 10550.
- scheibeneri* Haas, 1927; *Ctenodesma*. Senckenbergiana, 9 (1): pp. 20-21, pl. 1, fig. 1—Upper course of Soengei Batoe, Kp. Moeara Koeajan, Uterabt, Sampit, U. Dist. Boren-Sampit, Borneo. Holotype SMF 3283.
- Schepmania* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., 45 (1): pp. 33-34. Type species—*Unio nieuwenhuisi* Schepman, 1898.
- Schizocleithrum* Haas, 1913. Nachr. Bl. dtsh. malak. Ges., 45 (1): p. 36. Type species—*Unio pajakomboensis* Bullen, 1906.
- schmidti* Haas, 1955; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., 37: pp. 314-315, fig. 62—Ccachubamba, Marcapata, Cuzco, Peru. Holotype FMNH 51323.
- schmidti* Haas, 1955; *Thaumastus* (*Scholviencia*). Fieldiana: Zool., 37: pp. 309-311, fig. 59—Hacienda Piso, Locroja, Huancavelica, Peru. Holotype FMNH 51305.
- schödei* Haas, 1930; *Unio*. Senckenbergiana, 12 (1): p. 6. New name for *Unio undulatus* Haas, 1910 not Say, 1831.
- schomburgki* Haas, 1936; *Mutela hargerii*. Abhandl. senckenb. naturf. Ges., 431: pp. 98-100, pl. 8, fig. 3a-e—Lake Bangweolo near Nsombo, N Rhodesia. Holotype SMF 9551.
- schoutedeni* Haas, 1936; *Caelatura* (*Kistinaia*). Abhandl. senckenb. naturf. Ges., 431: pp. 64-65, pl. 5, fig. 4a-d—Luapula River, near Kasenga, Katanga, Belgian Congo. Holotype—Congo Museum in Tervueren.

- schubarti* Haas, 1938; *Hippeutis*. Arch. Moll., **70** (1): pp. 49-50, fig. 7—Açude Triumpho, State Pernambuco, Northeast Brazil at 1,000 meters elevation. Holotype SMF 24372.
- schunkei* Haas, 1955; *Aperostoma* (*Aperostoma*). Fieldiana: Zool., **34** (35): pp. 361-363, fig. 70—Chanchamayo Valley, Lima, Peru, at 1,200 meters elevation. Holotype FMNH 47080.
- schunkei* Haas, 1949; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **31** (28): pp. 237-238, fig. 50b—Cerro Azul, on Rio Ucayali, Dept. Loreto, Peru. Holotype FMNH 30040.
- semistriatus* Haas, 1955; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (35): pp. 374-375, fig. 77—Fazenda Ipanema, Varnhagen District, São Paulo, Brazil. Holotype FMNH 49784.
- sentaniensis* Haas, 1924; *Hyridella*. Nova Guinea, **15** (1): p. 72, pl. 2, fig. 6—Lake Sentani, New Guinea. Holotype—Zoologisch Museum Amsterdam.
- Sinotaia* Haas, 1939. Field Mus. Nat. Hist., Zool. Ser., **24** (8): p. 96. Type species—*Paludina quadrata* Benson, 1842.
- Sioliella* Haas, 1949. Ann. Inst. Biol. Mexico, **20** (1-2): p. 308. Type species—*Sioliella effusa* Haas, 1949.
- siolii* Haas, 1952; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **34** (9): pp. 108-109, fig. 14—Cacaual Grande, Furo Piapó, on tree branches above flooded area, Pará, Brazil. Holotype FMNH 38170.
- siolii* Haas, 1949; *Helicina* (*Helicina*). Arch. Moll., **78** (4/6): p. 159, pl. 7, fig. 4—mouth Rio Branco de Obidos, Pará, Brazil. Holotype FMNH 30425.
- siolii* Haas, 1949; *Littoridina*. Ann. Inst. Biol. Mexico, **20** (1-2): pp. 310-312, fig. 4—Rio São Manoel, Remanso, Pará, Brazil. Holotype FMNH 29192.
- siolii* Haas, 1955; *Systrophia* (*Systrophia*). Arch. Moll., **84** (1/3): pp. 103-104, figs. 4-6—Serra Formosa near Mulata, Monte Alegre, Pará, Brazil. Holotype FMNH 52352.
- soembawana* Haas, 1912; *Neritina* (*Clithon*). Ann. Mag. Nat. Hist. (8), **10** (58): p. 418—Bima, N coast of Soembawa, Indonesia. Holotype SMF 5967.
- soembawana* Haas, 1912; *Vivipara javanica*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 418—Dompoe, Soembawa, Indonesia. Holotype SMF 5979.

- solidus* Haas, 1911; *Pseudodon*. Nachr. Bl. dtsch. malak. Ges., 43 (1): pp. 46–47—Hunan, Central China. Holotype SMF 3583 (destroyed during war).
- stappersi* Haas, 1936; *Mesafra mesafricana*. Abhandl. senckenb. naturf. Ges., 431: p. 84, pl. 7, figs. 2a, 2b—Luapula River near Kasenga, Belgian Congo. Holotype Congo Museum at Tervuren.
- sterni* Haas, 1912; *Trochomorpha* (*Videna*). Ann. Mag. Nat. Hist. (8), 10 (58): p. 414—Tihoe, island of Wetar, Indonesia. Holotype SMF 5890.
- steyermarki* Haas, 1955; *Plecocheilus* (*Eurytus*). Fieldiana: Zool., 34 (35): pp. 377–378, fig. 79—plateau below summit of Apacará-tepui, northwest part of Chimantá-massif, State of Bolívar, Venezuela. Holotype FMNH 49735.
- stiphra* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), 1 (3): pp. 285–286, fig. 8—G. 27 G.I.C. 873/6, ca. 3 meters depth, Molinopampa, Lago Grande, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.1179.
- stresemanni* Haas, 1913; *Isidora*. Nachr. Bl. dtsch. malak. Ges., 45 (4): p. 184—Lake Wakolo in Central Buru, Indonesia. Holotype SMF 807A.
- striatissimus* Haas, 1912; *Melanoides*. Ann. Mag. Nat. Hist. (8), 10 (58): pp. 419–420—Kabaëna, Indonesia. Holotype SMF 5967 (destroyed during war).
- Strombopoma* Haas, 1955. Trans. Linn. Soc. London (3), 1 (3): pp. 296–297. Type species—*Littoridina* (*Heleobia*) *ortoni* Pilsbry, 1924.
- subcostatus* Haas, 1948; *Bulimulus* (*Protoglyptus*). Fieldiana: Zool., 31 (23): pp. 190–192, fig. 39—Jaën, Dept. Cajamarca, Peru, at 1,500–2,100 ft. elevation. Holotype FMNH 29148.
- subdoliolum* Haas, 1935; *Buliminopsis* (*Buliminopsis*). Zool. Anz., 109 (7/8): p. 192, fig. 8—Badung, Prov. Hupé, China. Holotype SMF 9323.
- subelatus* Haas, 1948; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., 31 (23): pp. 189–190, fig. 38—Ambo near Huanuco, Dept. Huanuco, Peru, at 6,300 feet elevation. Holotype FMNH 29146.
- subgradatus* Haas, 1952; *Potamopyrgus* (*Potamopyrgus*). Fieldiana: Zool., 34 (9): p. 111, fig. 15—in residual pools of Amazon River at Cacaual Grande, Pará, Brazil. Holotype FMNH 38215.

- sublaevis* Haas, 1912; *Plotia scabra*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 419—Sadjang, Lombok, Indonesia. Holotype SMF 5971.
- subschlegeli* Haas, 1919; *Hyriopsis*. Jb. Preuss. Geol. Landesanstalt, **40**, Teil 2 (1): pp. 148–150, pl. 4, figs. 1–2—Icksberg near Brachter Forest, Nordrhein, Westfalen, Germany. Holotype probably in Geol. Landesmuseum, Berlin.
- subsellae* Haas, 1936; *Gulella* (*Gulella*). Abhandl. senckenb. naturf. Ges., **431**: p. 17, pl. 1, fig. 3—Oldeani, south side of Ngorongoro Mt., German East Africa at 1,800 meters elevation in rain forest. Holotype SMF 8671.
- subumbilicata* Haas, 1937; *Gastrocopta* (*Gastrocopta*). Arch. Moll., **69** (1/2): pp. 2–4, pl. 1, figs. 1–2—Rio Tumbes, Peru. Holotype SMF 11056.
- superstructum* Haas, 1955; *Aperostoma* (*Incidostoma*). Fieldiana: Zool., **34** (35): pp. 364–365, fig. 72—between San José de Sisa and Cunumbuque, Prov. of Lamas, Dept. of San Martin, Peru, at 1,000–1,200 meters elevation. Holotype FMNH 47082.
- supranodata* Haas, 1934; *Pseudoaspasita*. Zool. Anz., **108** (7/8): pp. 203–205, fig. 5—Badung, Hubei, China. Holotype SMF 8697.
- Tamsiella* Haas, 1931. Senckenbergiana, **13** (2): p. 87. Type species—*Monocondylaea tamsiana* Dunker, 1858.
- tatei* Haas, 1955; *Plecocheilus* (*Eurytus*). Fieldiana: Zool., **34** (35): pp. 385–386, fig. 84—"Ledge 23B," Mount Duida, Territory of the Amazon, Venezuela. Holotype AMNH 73455.
- tenimberica* Haas, 1937; *Nesopupa* (*Insulipupa*). Arch. Moll., **69** (1/2): pp. 4–5, pl. 1, figs. 5–6—Tenimber Islands, Indonesia. Holotype SMF 10761.
- tenuis* Haas, 1955; *Strophocheilus* (*Microborus*). Fieldiana: Zool., **37**: pp. 330–331, fig. 70—Yungay, Ancash, Peru. Holotype FMNH 51925.
- teres* Haas, 1949; *Obeliscus* (*Protobeliscus*). Fieldiana: Zool., **31** (28): pp. 240–241, fig. 52—Divisoria, Dept. Huanuco, Peru, at 5,000 feet elevation. Holotype FMNH 30028.
- tetricus* Haas, 1951; *Thaumastus* (*Quechua*). Fieldiana: Zool., **31** (46): pp. 523–524, fig. 110—Huacapistana on Rio Tarma, Junín Prov., Peru. Holotype FMNH 30920.
- Thaumtogulella* Haas, 1951. Nautilus, **64** (4): p. 134. Type species—*Gulella prodigiosa* E. A. Smith, 1902

- Torobaena* Haas, 1935. Arch. Moll., **67** (1): pp. 45-46. Type species—*Helix rostellata* Pfeiffer, 1862.
- torocincta* Haas, 1933; *Helicella* (*Jacosta*) *syrensis*. Senckenbergiana, **15** (1/2): pp. 27-28, fig. 8—Cape Greco, Cyprus. Holotype SMF 6833.
- Torotata* Haas, 1939. Field Mus. Nat. Hist., Zool. Ser., **24** (8): p. 96. Type species—*Vivipara clemensi* Bartsch, 1909.
- Trachychloritis* Haas, 1934. Zool. Anz., **108** (7/8): p. 203. Type species—*Chloritis* (*Trachychloritis*) *verrucosa* Haas, 1934.
- transsylvanica* Haas, 1911; *Anodonta piscinalis*. Rossmässler's Icon. land-u-Süssw. Moll., N.F., **17**: p. 50, pl. 473, fig. 2541; pl. 474, fig. 2542—Zibinfluss near Hermannstadt, Siebenburgen, Rumania. Holotype SMF 5153.
- trauti* Haas, 1912; *Nanina*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 413—Baoe-baoe, Boeton, off SE Celebes, Indonesia. Holotype SMF 5854.
- tricarinatus* Haas, 1912; *Lagochilus*. Ann. Mag. Nat. Hist. (8), **10** (58): pp. 417-418—Kabaëna Island, Indonesia. Holotype SMF 5908.
- trigonostoma* Haas, 1934; *Solaropsis*. Senckenbergiana, **16** (2/3): pp. 94-95, figs. 1-5—João Pessoa, Parahyba do Norte, Brazil. Holotype SMF 7907.
- tumens* Haas, 1910; *Anodontites lautus*. Ann. Mag. Nat. Hist. (8), **6** (35): p. 499—Yamashiro, Japan. Holotype SMF 3671.
- tumens* Haas, 1955; *Nenia* (*Neniatracta*) *adusta*. Fieldiana: Zool., **37**: pp. 305-306, fig. 57—on km. 62 of the road between Huancayo and Mejorada, Huancavelica, Peru. Holotype FMNH 51361.
- umbilicatum* Haas, 1955; *Heligmopoma*. Trans. Linn. Soc. London (3), **1** (3): pp. 300-301, fig. 26—P.56.G.I.C. 1008/2, Siripata Bay, Lake Titicaca, Peru. Holotype BMNH 1956.11.5.157.
- undulata* Haas, 1910; *Nodularia*. Ann. Mag. Nat. Hist. (8), **6** (35): pp. 497-498—Pisui, Hainan, China. Holotype Berlin Museum.
- undata* Haas, 1966; *Solaropsis* (*Psadara*). Fieldiana: Zool., **44** (25): pp. 235-238, figs. 50-53—North of coulee no. 3 of Rio Guaya-bero, in direction of La Macarena, Dept. Meta, Colombia (ca. 74°W, 2°30'S). Holotype FMNH 114100.
- Uniandra* Haas, 1913. Syst. Conch. Cab. (9), **2** (2): p. 140. Type species—*Unio inaequalis* Rochebrune, 1882.

- Unionella* Haas, 1913. Nachr. Bl. dtsch. malak. Ges., **45** (1): pp. 37–38. Type species—*Unio fabagina* Deshayes and Jullien, 1874.
- Unionetta* Haas, 1955. Arch. Moll., **84** (4/6): p. 212. New Name for *Unionella* Haas, 1913 not Etheridge, 1888.
- unizonata* Haas, 1966; *Helicina* (*Oxyrhombus*). Fieldiana: Zool., **44** (25): pp. 231–233, fig. 48—Region Nueva Granada, Upper Río Putumayo, downstream from Puerto Asís, Putumayo, Colombia (76°27'W, 0°24'N). Holotype FMNH 114098.
- variegatus* Haas, 1949; *Austroselenites*. Fieldiana: Zool., **31** (28): pp. 247–248, fig. 59—Cerro Azul, on Río Ucayali, Dept. Loreto, Peru. Holotype FMNH 30037.
- ventricosulus* Haas, 1912; *Melanoides crepidinatus*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 420—Mengkoka, southeast Celebes, Indonesia. Holotype SMF 5963.
- Vermetellus* Haas, 1951. Fieldiana: Zool., **31** (46): p. 520. Type species—*Bostryx metaggyra* Pilsbry & Olsson, 1949.
- verrucosa* Haas, 1934; *Chloritis* (*Trachychloritis*). Zool. Anz., **108** (7/8): p. 203, figs. 3–4—Sjerak Island, Tenimber Islands. Holotype SMF 9108.
- verrucosa* Haas, 1910; *Nodularia*. Nachr. Bl. dtsch. malak. Ges., **42** (3): pp. 99–100—Hunan, Middle China. Holotype SMF 3660.
- vestita* Haas, 1955; *Littoridina*. Trans. Linn. Soc. London (3), **1** (3): p. 290, fig. 15—G. 122. G.I.C. 121216, 3–5 meters depth, Lagunilla Saracocha, Titicaca Basin, Peru. Holotype BMNH 1956. 11.5.371.
- virgula* Haas, 1951; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., **31** (46): pp. 514–515, fig. 102—Ninabamba on the Pampas River, Peru, at 2,700 meters elevation. Holotype FMNH 30917.
- viridulum* Haas, 1952; *Aperostoma* (*Aperostoma*). Fieldiana: Zool., **34** (9): pp. 113–114, fig. 16—Machu Picchu near Cuzco, on Río Urubamba, Peru, at 2,100 meters elevation. Holotype FMNH 38379.
- webbi* Haas, 1951; *Bulimulus* (*Peronaeus*). Fieldiana: Zool., **31** (46): pp. 513–514, fig. 101—Tacana, near Surcubamba, Dept. Taya-caya, Peru. Holotype FMNH 31335.
- wetarana* Haas, 1912; *Neritina* (*Neritina*). Ann. Mag. Nat. Hist. (8), **10** (58): p. 419—Ilwaki R., near Ilmedo, Wetar, Indonesia. Holotype SMF 5975.

- wetarana* Haas, 1912; *Xesta rugosissima*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 412—Tihoe, Wetar, Indonesia. Holotype SMF 5858.
- wetaranus* Haas, 1912; *Amphidromus*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 415—Tihoe, island of Wetar, Indonesia. Holotype SMF 5893.
- wetaranus* Haas, 1912; *Cyclophorus*. Ann. Mag. Nat. Hist. (8), **10** (58): p. 417—Iwak, Wetar, Indonesia. Holotype SMF 5910.
- weyrauchi* Haas, 1951; *Austroselenites*. Fieldiana: Zool., **31** (46): pp. 535–537, fig. 119—Cuzco, Peru, at 3,500 meters elevation. Holotype FMNH 30939.
- weyrauchi* Haas, 1952; *Calaperostoma*. Fieldiana: Zool., **34** (9): pp. 115–116, fig. 18—Oxapampa, Peru, at 1,700 meters elevation. Holotype FMNH 38377.
- weyrauchi* Haas, 1948; *Helicina* (*Helicina*). Fieldiana: Zool., **31** (23): pp. 192–193, fig. 40—Jaén, Dept. Cajamarca, Peru, at 15,000 feet elevation. Holotype FMNH 29142.
- ylinicum* Haas, 1937; *Hypselostoma polyodon*. Arch. Moll., **69** (1/2): pp. 5–6, pl. 1, figs. 10–12—Ylin Island, South Mindoro, Philippines. Holotype SMF 10769.
- Zairiella* Haas, 1963. Arch. Moll., **91** (4/6): p. 215. Type species—*Caelatura* (*Zairia*?) *cridlandi* Mandahl-Barth, 1954.
- zilchi* Haas, 1955; *Drymaeus* (*Drymaeus*). Fieldiana: Zool., **37**: pp. 333–334, fig. 73—Huasimo, Tumbes, Peru, at 220 meters elevation. Holotype FMNH 5197.
- zischkai* Haas, 1952; *Streptaxis* (*Streptartemon*). Fieldiana: Zool., **34** (9): pp. 131–132, fig. 26—Magdalena, Amazonian Region, Bolivia, at 250 meters elevation. Holotype FMNH 39437.
- zulu* Haas, 1936; *Pseudoglossula* (*Kempioconcha*). Abhandl. senckenberg. naturf. Ges., **431**: p. 14, pl. 1, fig. 9—Umfolzi Game Reserve, Zululand. Holotype SMF 8169.

SYSTEMATIC LIST OF NAMES

The classification is that currently used in the collection at Field Museum of Natural History, a slight modification of the Thiele-Wenz-Zilch system. With one exception, names are in the family unit originally used or as subsequently restricted in generally accepted monographic studies. *Coarctatio* Haas, 1945, a synonym of *Stenopylis* Fulton, 1914, has been transferred from the Streptaxidae to its proper position in the Endodontidae.

Although a vast number of families are represented, his long interest in the Unionacea (90 names), Bulimulacea (59 names) and Hydrobiidae (34 names) is clearly indicated by their preponderance.

CLASS BIVALVIA

Family Malletiidae

Malletia (Malletia) bermudensis Haas, 1949

Family Margaritanidae

Margaritana margaritifera parvula Haas, 1908

Pseudunio Haas, 1910

Family Unionidae

Afroparreysia Haas, 1936

Afronaia Haas, 1963

Anodonta piscinalis transsylvanica Haas, 1911

Anodonta (Pseudanodonta) nicarica Haas, 1908

Anodontites lautus tumens Haas, 1910

Aspatharia (Spathopsis) dautzenbergi Haas, 1936

Caelatura graueri Haas, 1927

Caelatura (Caelatura) choziensis bangweolica Haas, 1936

Caelatura (Kistinaia) schoutedeni Haas, 1936

Chrysopseudodon Haas, 1920

Conchodromus Haas, 1930

Contradens Haas, 1913

Contradens semmelincki fultoni Haas, 1930

Cosmopseudodon Haas, 1920

Cristaria discoidea sautteri Haas, 1910

Cristaria inangulata Haas, 1910

Ctenodesma scheibeneri Haas, 1927

Cuneopsis demangei Haas, 1929

Diplopseudodon Haas, 1920

Elliptio (Nephronaias) hermanni Haas, 1929

Elongaria Haas, 1913

- Hyridella sentaniensis* Haas, 1924
Hyriopsis altealata Haas, 1919
Hyriopsis gracilis Haas, 1910
Hyriopsis subschlegeli Haas, 1919
Inversidens Haas, 1911
Kalliphenga Haas, 1936
Kistinaia Haas, 1936
Leiovirgus Haas, 1911
Margaritanopsis Haas, 1913
Mesafra Haas, 1936
Mesafra mesafricana stappersi Haas, 1936
Mweruella Haas, 1936
Nesonaia Haas, 1913
Nodularia continentalis Haas, 1910
Nodularia denserugata Haas, 1910
Nodularia douglasiae crassidens Haas, 1910
Nodularia hirasei Haas, 1911
Nodularia parcedentata Haas, 1911
Nodularia persculpta Haas, 1910
Nodularia undulata Haas, 1910
Nodularia verrucosa Haas, 1910
Nyassunio Haas, 1936
Orynaia Haas, 1913
Parreyssia hunanensis Haas, 1910
Pressidens Haas, 1910
Pressidens moellendorffi Haas, 1910
Prohyriopsis Haas, 1914
Protunio Haas, 1913
Pseudanodonta compacta küsteri Haas, 1913
Pseudodon solidus Haas, 1911
Psorula Haas, 1930
Ptychorhynchus laevis Haas, 1910
Rhombuniopsis Haas, 1920
Rhytidonaia Haas, 1936
Rotundaria salinarum Haas, 1929
Scabies Haas, 1911
Schepmania Haas, 1913
Schizocleithrum Haas, 1913
Trapezodeus prashadi Haas, 1922
Uniandra Haas, 1913
Unio batavus badensis Haas, 1910
Unio batavus catalonicus Haas, 1921
Unio batavus hexameri Haas, 1911
Unio batavus kobeltianus Haas, 1913
Unio batavus palatinus Haas, 1911
Unio batavus probavaricus Haas, 1911
Unio batavus sabulosus Haas, 1910
Unio cathaicus Haas, 1930
Unio crassus heimbürgi Haas, 1911

Unio gentilis Haas, 1911
Unio hassiae Haas, 1908
Unio kinkelini Haas, 1908
Unio lauterborni Haas, 1909
Unio pseudocrassus Haas, 1909
Unio schödei Haas, 1930
Unionella Haas, 1913
Unionetta Haas, 1955
Zairiella Haas, 1963

Family Mutelidae

Diplodon guayanensis Haas, 1929
Diplodon hidalgoi Haas, 1916
Diplodon (Diplodon) besckeanus nordestinus Haas, 1938
Diplodon (Diplodon) losadae Haas, 1966
Hydriddella sentaniensis Haas, 1924
Marshalliella Haas, 1931
Mutela hargerii schomburgki Haas, 1936
Mycetopoda bolivari Haas, 1916
Tamsiella Haas, 1931

Family Corbiculidae

Corbicula albida rosini Haas, 1936

Family Sphaeriidae

Sphaerium hartmanni bangweolicum Haas, 1936
Sphaerium hartmanni congium Haas, 1936

Family Erycinidae

Galeomma (Galeomma) rüppelli Haas, 1935

CLASS GASTROPODA

Sub-Class Prosobranchia

Family Uncertain

Polyhyba Haas, 1947
Polyhyba dybasi Haas, 1947

Family Neritidae

Neritina (Clithon) soembawana Haas, 1912
Neritina (Neritina) wetarana Haas, 1912
Septaria elberti Haas, 1912

Family Helicinidae

Helicina (Helicina) munda Haas, 1951
Helicina (Helicina) siolii Haas, 1949
Helicina (Helicina) weyrauchi Haas, 1948
Helicina (Oxyrhombus) unizonata Haas, 1966

Family Cyclophoridae

Cyclophorus wetaranus Haas, 1912
Cyclotus (Cyclotus) discoidellus Haas, 1933
Cyclotus discoideus Haas, 1912
Lagochilus tricarinatus Haas, 1912
Leptopoma celebesianum concolor Haas, 1912

Family Poteriidae

- Aperostoma* (*Aperostoma*) *indecisum* Haas, 1952
- Aperostoma* (*Aperostoma*) *schunkei* Haas, 1955
- Aperostoma* (*Aperostoma*) *viridulum* Haas, 1952
- Aperostoma* (*Incidostoma*) *dilatatum* Haas, 1955
- Aperostoma* (*Incidostoma*) *superstructum* Haas, 1955
- Calaperostoma* *weyrauchi* Haas, 1952

Family Diplommatinidae

- Malarinia* Haas, 1961
- Malarinia* *hova* Haas, 1961

Family Viviparidae

- Acanthotropis* Haas, 1939
- Sinotaia* Haas, 1939
- Torotaia* Haas, 1939
- Vivipara javanica lumbocensis* Haas, 1912
- Vivipara javanica soembawana* Haas, 1912
- Vivipara maritzana* Haas, 1913
- Viviparus unicolor pitmani* Haas, 1934
- Viviparus* (*Bellamyia*) *contractus* Haas, 1934
- Viviparus* (*Bellamyia*) *monardi* Haas, 1934

Family Ampullaridae

- Lanistes* (*Meladomus*) *ovum bangweolicus* Haas, 1936

Family Valvatidae

- Pleurovalvata* Haas, 1951

Family Pomatiasidae

- Annularia barkeri* Haas, 1951

Family Hydrobiidae

- Brachypyrghulina* Haas, 1955
- Brachypyrghulina carinifera* Haas, 1955
- Bythinella brevis persuturata* Bofill, Haas and Aguilar-Amat, 1921
- Bythinella compressa montis-avium* Haas, 1914
- Ecpomastrum* Haas, 1957
- Ecpomastrum mirum* Haas, 1957
- Heligmopoma* Haas, 1955
- Heligmopoma umbilicatum* Haas, 1955
- Hydracme* Haas, 1938
- Hydracme rudolphi* Haas, 1938
- Lartetia sterkiana lauterborni* Haas, 1936
- Limnothauma* Haas, 1955
- Limnothauma crawfordi* Haas, 1955
- Littoridina aperta* Haas, 1955
- Littoridina inconspicua* Haas, 1938
- Littoridina lacustris* Haas, 1955
- Littoridina languiensis* Haas, 1955
- Littoridina profunda* Haas, 1955
- Littoridina pusilla* Haas, 1949
- Littoridina siolii* Haas, 1949

- Littoridina saracochae* Haas, 1955
Littoridina stiphra Haas, 1955
Littoridina vestita Haas, 1955
Potamopyrgus fagundesii Haas, 1938
Potamopyrgus (*Aroa*) *latus* Haas, 1949
Potamopyrgus (*Potamopyrgus*) *amazonicus* Haas, 1949
Potamopyrgus (*Potamopyrgus*) *subgradatus* Haas, 1952
Rhamphopoma Haas, 1955
Rhamphopoma magnum Haas, 1955
Rhamphopoma parvum Haas, 1955
Sioliella Haas, 1949
Sioliella effusa Haas, 1949
Strombopoma Haas, 1955
Strombopoma gracile Haas, 1955

Family Rissoidae

- Alvania* (*Willexia*) *microglypta* Haas, 1943

Family Thiaridae

- Melanoides crepidinatus ventricosulus* Haas, 1912
Melanoides striatissimus Haas, 1912
Melanoides tuberculatus nudatus Haas, 1912
Microdontia ovata Haas, 1910
Plotia scabra sublaevis Haas, 1912
Tarebia celebensis boetonensis Haas, 1912

Family Diastomidae

- Alabina longinqua* Haas, 1949

Family Naticidae

- Natica* (*Tectonatica*) *micra* Haas, 1952

Family Magilidae

- Coralliophila profundicola* Haas, 1949

Family Fasciolariidae

- Latirus festivus* Haas, 1941

Family Turridae

- Bathybermudia* Haas, 1949
Bathybermudia carynae Haas, 1949
Cymatosyrinx bartschi Haas, 1941
Ithycthyara hyperlepta Haas, 1952

Sub-Class Opisthobranchia

Family Pyramidellidae

- Chrysallida* (*Chrysallida*) *ornatissima* Haas, 1943

Sub-Class Pulmonata

Family Ellobiidae

- Auriculastra nana* Haas, 1950
Bullapex Haas, 1950
Pedipes insularis Haas, 1950

Family Chilinidae

Chilina minuta Haas, 1951

Family Physidae

Physa (*Plesiophysa*?) *ornata* Haas, 1938

Family Lymnaeidae

Limnaea buruana Haas, 1913

Limnaea javanica elbertae Haas, 1912

Limnaea javanica nana Haas, 1912

Family Ferrissiidae

Anisancylus lagunarum Haas, 1955

Family Planorbidae

Biomphalaria ruppellii katangae Haas, 1934

Bulinus (*Bulinus*) *hemprichii depressus* Haas, 1936

Bulinus (*Diastrophia*) *contortus bullaceus* Haas, 1936

Bulinus (*Physastra*) *confertus liratinus* Haas, 1934

Hippeutis schubarti Haas, 1938

Isidora stresemanni Haas, 1913

Obstructio Haas, 1939

Planorbis (*Gyraulis*) *elberti* Haas, 1912

Taphius montanus bakeri Haas, 1955

Family Vertiginidae

Gastrocopta (*Gastrocopta*) *subumbilicata* Haas, 1937

Gastrocopta (*Immersidens*) *hummelincki* Haas, 1960

Nesopupa (*Insulipupa*) *tenimberica* Haas, 1937

Family Chondrinidae

Boysidia (*Boysidia*) *gracilis* Haas, 1937

Hypselostoma luzonicum grande Haas, 1937

Hypselostoma luzonicum lubanicum Haas, 1937

Hypselostoma polyodon ylinicum Haas, 1937

Family Valloniidae

Pupisoma (*Pupisoma*) *gracile* Haas, 1937

Salpingoma Haas, 1937

Family Enidae

Cerastus (*Cerastus*) *lymnaeiformis* Haas, 1936

Ena (*Heudiella*) *phaedusoides krejcii* Haas, 1933 (= *consona* Haas, 1951)

Ena (*Mirus*) *krejcii* Haas, 1933

Rachis gracillima Haas, 1936

Zebrina (*Styloptychus*) *amphischnus* Haas, 1933

Family Acavidae

Strophocheilus (*Microborus*) *tenuis* Haas, 1955

Family Clausiliidae

Clausilia (*Pseudonenia*) *simillima kabaënae* Haas, 1912

Nenia (*Columbinia*) *obesa* Haas, 1949

Nenia (*Neniatracta*) *adusta tumens* Haas, 1955

Nenia (?) *angrandi kalinowskii* Haas, 1955

Temesa dichroa Haas, 1929

Family Endodontidae

Afropunctum Haas, 1934

Afropunctum mermodi Haas, 1934

Coarctatio Haas, 1945

Radiodiscus (*Radioconus*) *microhelix* Haas, 1951

Family Zonitidae

Calloretinella Haas, 1934

Retinella (*Calloretinella*) *mavromoustakisi* Haas, 1934

Family Trochomorphidae

Trochomorpha (*Videna*) *gründleri* Haas, 1912

Trochomorpha (*Videna*) *sterni* Haas, 1912

Family Helicarionidae

Dyakia duumvirorum Haas, 1951

Everettia iridescens Haas, 1912

Hemiplecta demmeri Haas, 1912

Hemiplecta rasori Haas, 1912

Hemiplecta (*Rhysota*) *rugulosa* Haas, 1912

Ledoulxia connollyi Haas, 1932

Nanina butonensis hageni Haas, 1912

Nanina butonensis rarimaculata Haas, 1912

Nanina trauti Haas, 1912

Sitala concavispira Haas, 1936

Xesta everetti elberti Haas, 1912

Xesta rugosissima wetarana Haas, 1912

Xestina chrysoraphe krejci Haas, 1933

Family Subulinidae

Bocageia (*Liobocageia*) *elata* Haas, 1936

Bocageia (*Lubricetta*) *rollei* Haas, 1928

Diaopeas Haas, 1962

Leptinaria (*Lamellaxis*) *eyerdami* Haas, 1951

Lubricetta Haas, 1928

Neoglessula corpulenta Haas, 1932

Obeliscus (*Protobeliscus*) *nanus* Haas, 1951

Obeliscus (*Protobeliscus*) *teres* Haas, 1949

Prosopeas elberti Haas, 1912

Prosopeas hasta Haas, 1912

Pseudoglessula (*Ischnoglessula*) *monardi* Haas, 1935

Pseudoglessula (*Kempioconcha*) *zulu* Haas, 1936

Family Oleacinidae

Euglandina (*Euglandina*) *cylindrus angusta* Haas, 1951

Family Bulimulidae

Basileostylus Haas, 1935

Bulimulus (*Ataxus*) *perforatus* Haas, 1951

Bulimulus (*Bulimulus*) *inconspicuus* Haas, 1949

Bulimulus (*Lissoacme*) *extraneus* Haas, 1955

- Bulimulus (Lissoacme) rudistriatus* Haas, 1955
Bulimulus (Peronaeus) acme Haas, 1955
Bulimulus (Peronaeus) claviformis Haas, 1951
Bulimulus (Peronaeus) extensus Haas, 1955
Bulimulus (Peronaeus) mordens Haas, 1952
Bulimulus (Peronaeus) pyrgidium Haas, 1955
Bulimulus (Peronaeus) subelatus Haas, 1948
Bulimulus (Peronaeus) virgula Haas, 1951
Bulimulus (Peronaeus) webbi Haas, 1951
Bulimulus (Protoglyptus) rhabdotus Haas, 1951
Bulimulus (Protoglyptus) subcostatus Haas, 1948
Bulimulus (Rhabdotus) fonsecanus Haas, 1961
Bulimulus (Rhinus) obeliscus Haas, 1936
Bulimulus (Scutalus) achrous Haas, 1952
Bulimulus (Scutalus) haenkei Haas, 1955
Bulimulus (Scutalus) longitudinalis Haas, 1955
Bulimulus (Scutalus) phaeocheilus Haas, 1955
Bulimulus (Scutalus) punctilineatus Haas, 1951
Bulimulus (Scutalus) revinctus altorum Haas, 1951
Bulimulus (Scutalus) sanborni Haas, 1947
Drymaeus gorgonensis Haas, 1966
Drymaeus (Drymaeus) basitorus Haas, 1951
Drymaeus (Drymaeus) catenae Haas, 1952
Drymaeus (Drymaeus) coelestini Haas, 1952
Drymaeus (Drymaeus) eucosmetus Haas, 1955
Drymaeus (Drymaeus) gibber Haas, 1949
Drymaeus (Drymaeus) griffini Haas, 1955
Drymaeus (Drymaeus) latitesta Haas, 1952
Drymaeus (Drymaeus) limicolaroides Haas, 1936
Drymaeus (Drymaeus) pergracilis Haas, 1952
Drymaeus (Drymaeus) pseudelatus Haas, 1951
Drymaeus (Drymaeus) rugistriatus Haas, 1952
Drymaeus (Drymaeus) schmidtii Haas, 1955
Drymaeus (Drymaeus) schunkei Haas, 1949
Drymaeus (Drymaeus) semistriatus Haas, 1955
Drymaeus (Drymaeus) siolii Haas, 1952
Drymaeus (Drymaeus) zilchi Haas, 1955
Dryptus lasalleanus Haas, 1959
Kionoptyx Haas, 1966
Kionoptyx sagasteguii Haas, 1966
Maoristylus Haas, 1935
Neopetraeus platycheilus Haas, 1955
Placostylus (Placostylus) leoni Haas, 1935
Plecocheilus (Plecocheilus) fulminans alticola Haas, 1955
Plecocheilus (Eurytus) juliani Haas, 1955
Plecocheilus (Eurytus) mundi-perditi Haas, 1955
Plecocheilus (Eurytus) ortizianus Haas, 1955
Plecocheilus (Eurytus) steyermarki Haas, 1955

- Plecocheilus (Eurytus) tatei* Haas, 1955
Thaumastus (Scholvienia) schmidtii Haas, 1955
Thaumastus (Quechua) tetricus Haas, 1951
Vermetellus Haas, 1949

Family Odontostomidae

- Digerus* Haas, 1937
Odontostomus (Spixia) costellifer Haas, 1936
Odontostomus (Spixia) pervarians Haas, 1936

Family Systrophiiidae

- Happia (Happia) cuzcana planior* Haas, 1951
Systrophia (Systrophia) angigyra Haas, 1949
Systrophia (Systrophia) cereonitens Haas, 1951
Systrophia (Systrophia) impressa Haas, 1951
Systrophia (Systrophia) obvoluta Haas, 1949
Systrophia (Systrophia) platysma Haas, 1951
Systrophia (Systrophia) retinella Haas, 1949
Systrophia (Systrophia) siolii Haas, 1955
Systrophia (Systrophiiella) gyrellina Haas, 1951

Family Haplotrematidae

- Austroselenites variegatus* Haas, 1949
Austroselenites weyrauchi Haas, 1951

Family Streptaxidae

- Diaphera (Huttonella) kohl-larseni* Haas, 1936
Digulella Haas, 1934
Elma bisexigua Haas, 1951
Fultonelma Haas, 1951
Gonaxis (Gonaxis) ordinarius obliquior Haas, 1936
Gulella (Gulella) subsellae Haas, 1936
Gulella (Primigulella) satura Haas, 1936
Rhabdoguella Haas, 1934
Sairostoma Haas, 1938
Sairostoma perplexum Haas, 1938
Streptaxis (Streptartemon) extraneus Haas, 1955
Streptaxis (Streptartemon) zischkai Haas, 1952
Tayloria (Tayloria) moncieuxi Haas, 1934
Thaumatogulella Haas, 1951

Family Corillidae

- Amphicoelina* Haas, 1933

Family Polygyridae

- Polygyra (Erymodon) hertleini* Haas, 1961

Family Camaenidae

- Amphidromus wetaranus* Haas, 1912
Amphidromus (Amphidromus) moellendorffi Haas, 1934
Amphidromus (Goniodromus) asper Haas, 1934
Chloritis (Trachychloritis) verrucosa Haas, 1934
Chloritis planorbina Haas, 1912
Ganesella microbembix Haas, 1935

- Globotrochus* Haas, 1935
Obbiberus Haas, 1935
Pleurodonte (Labyrinthus) fragilis Haas, 1949
Pseudopapuina Haas, 1934
Solaropsis trigonostoma Haas, 1934
Solaropsis (Psadara) angulifera Haas, 1955
Solaropsis (Psadara) inornata Haas, 1951
Solaropsis (Psadara) monile peruviana Haas, 1951
Solaropsis (Psadara) undata Haas, 1966
Trachychloritis Haas, 1934

Family Helminthoglyptidae

- Karlschmidtia* Haas, 1955
Karlschmidtia lentiformis Haas, 1955
Epiphragmophora (Epiphragmophora) connectens Haas, 1959
Epiphragmophora (Epiphragmophora) hemiophthalos Haas, 1951
Epiphragmophora (Epiphragmophora) leucobasis Haas, 1951
Epiphragmophora (Epiphragmophora) malkini Haas, 1962
Epiphragmophora (Epiphragmophora) pilsbryi Haas, 1934

Family Bradybaenidae

- Aegista (Plectotropis) platytrochus* Haas, 1935
Bradybaena disculina Haas, 1933
Buliminopsis (Buliminopsis) subdoliolum Haas, 1935
Halolimnnohelix late-aperta Haas, 1936
Pseudaspasita supranodata Haas, 1934
Torobaena Haas, 1935
Tricheulota phacodes Haas, 1935

Family Helicidae

- Iberus (Iberus) gualtierianus posthumus* Haas, 1934
Josephinella Haas, 1936
Lindholmomneme Haas, 1936
Nesiberus Haas, 1934
Helicella (Jacosta) crenimargo convexior Haas, 1936
Helicella (Jacosta) ledereri picardi Haas, 1933
Helicella (Jacosta) maximella Haas, 1936
Helicella (Jacosta) multigradata Haas, 1936
Helicella (Jacosta) syrensis aulostoma Haas, 1936
Helicella (Jacosta) syrensis carinato-globosa Haas, 1934
Helicella (Jacosta) syrensis cypria Haas, 1933
Helicella (Jacosta) syrensis torocincta Haas, 1933
Helicella (Xerocincta) ammonis acenoica Haas, 1936
Helicella (Xerocrassa) seetzeni scharonica Haas, 1936
Helicella (Xeropicta) protea mavromoustakisi Haas, 1933
Helicella (Xeroplexa) amnesta Haas, 1936
Helicella (Xerotricha) conspurcata distinguenda Haas, 1936

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